Permit Fact Sheet

General Information

Permit Number	WI-0067617-01-0
Permittee Name and Address	Bakake Acres LLC E8885 Worm Rd, New London, WI 54961
Permitted Facility Name and Address	Bakake Acres LLC E8865 County Road T, New London, WI 54961
Permit Term	March 01, 2026 to February 28, 2031
Receiving Water	Unnamed tributary within the Partridge Lake - Wolf River Watershed, and groundwaters of the state
Discharge Type	Existing source CAFO per NR 243.03(23) as the animal feeding operation was in existence on the site prior to April 14, 2003.

Animal Units					
	Current AU		**Proposed AU** **(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.)	12	0	0	0	
Milking and Dry Cows	424	433	0	0	
Heifers (400 lbs. to 800 lbs.)	24	40	0	0	
Heifers (800 lbs. to 1200 lbs.)	44	40	0	0	
Total	504	433	0	0	

Facility Description

Brief Facility Description: Bakake Acres LLC is a proposed Concentrated Animal Feeding Operation (CAFO) that is owned & operated by Grady Auer. The department is required Bakake Acres LLC to apply for a WPDES permit per s. NR 243.25 (2) Wis. Admin. Code. for failing to implement corrective measures of a previously issued Notice of Discharge. Bakake Acres LLC consists of 1 site located at E8865 County Road T, New London, WI 54961. . Bakake Acres LLC currently in herd size consists of 504 animal units (303 milking & dry cows, 80 heifers & 60 calves) and is not proposing to expand during the upcoming permit term. Bakake Acres LLC currently produces approximately 5.3 million gallons of liquid manure & 455 tons of solid manure annually. Bakake Acres LLC has total of 755 acres available for land application of manure and process wastewater of which 740 are spreadable. Of this acreage, 200 acres are owned, and 555 acres are controlled though contracts, rental agreements, or manure agreements. For the current herd size, Bakake Acres

LLC is calculated (subject to change once engineering evaluations are reviewed) to have 588 days of liquid manure storage available, which will drop to 540 days after WSF #2 is abandoned.

Substantial Compliance Determination

N/A. This is Bakake Acres, LLC first WPDES Permit, therefore a substantial compliance determination is not needed per statute 283.53(3)(b)1.

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	Sample point 001 is for liquid Waste Storage Facility #1 (WSF #1). WSF #1 is a concrete lined impoundment located west of the freestall barns & south of the heifer barn. This facility has an approximate total volume of 8.8 million gallons and a maximum operating level capacity of 7.3 million gallons. This storage accepts manure and process wastewater from the freestall barns, parlor & adjacent heifer barn. This facility was constructed in 2017 and has not been evaluated since the time of construction. WSF #1 will require an engineering evaluation and installation of permanent markers, see Schedules section for further details.	
002	Sample point 002 is for liquid Waste Storage Facility #2 (WSF #2). WSF #2 is an in place earthen lined impoundment located east of the freestall barns. This facility has an approximate total volume of 1.5 million gallons and a maximum operating level capacity of 1.17 million gallons. This storage can accept manure from the main freestall barn. This facility was constructed in 2003 and has not been evaluated since the time of construction. An abandonment plan was approved by the department on 10/22/2025 for this facility, see Schedules section for further details.	
003	Sample point 003 is for any manure solids removed from 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.	
004	Sample point 004 is for solid manure sources that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
005	Sample point 005 is for solid manure stacked in approved headland stacking locations. Representative samples shall be taken of this manure prior to land application. Note: Headland stacking sites are subject to production site discharge limitations; weekly visual monitoring is required during use of stacking sites to ensure discharges meet permit requirements.	
006	Sample point 006 is for visual monitoring and inspection of the Feed Storage Area (FSA) and associated runoff control system. The FSA is located on the south end of the production area and is approximately 1.1 acres in area. The FSA consists of 3 concrete bunkers & a concrete pad. 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. An engineering evaluation and installation of permanent runoff controls for the feed storage area shall be submitted according to the Schedules section of the permit.	

Sample Point Designation For Animal Waste		
Sample Point Number	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**	
007	Sample point 007 is for visual monitoring and inspection of the calf hutch area and associated runoff control system. The calf hutch area is approximately 17,000 sq ft in size and is located on the north end of the production site along County Road T. Hutches are bedded in straw on an earthen base, but do not have engineered runoff controls. Proper operation and maintenance is required to ensure to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. This facility has not been evaluated & will need to have runoff controls installed or abandoned. See Schedules section for details.	
008	Sample point 009 is for visual monitoring and inspection of all production site storm water conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, grassed waterways and other diversion systems that transport uncontaminated storm water. Proper operation and maintenance is required to keep uncontaminated runoff diverted away from manure and process wastewater handling systems. Weekly inspections are required and shall be recorded according to monitoring program.	
009	Sample point 009 is for solid manure land applied from the solids stacking pad. This pad is located on the west side of the shed in between the existing freestall & heifer barns. The stacking pad has a concrete working surface and a vertical wall on a portion of the perimeter. Bedded pack manure from the adjacent barns is temporarily stored here.	

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 588 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 504 animal units (303 milking & dry cows, 80 heifers & 60 calves), it is estimated that approximately 5.3 million gallons of liquid manure and process wastewater & 455 tons of solid manure will be produced per year. The permittee owns *approximately 200* acres of cropland and 555 acres are controlled though contracts, rental agreements, or manure agreements. Given the rotation commonly used by the permittee, 740 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 permittee must also implement conservation practices when applying manure near navigable waters and their conduits, referred to as the Surface Water Quality Management Area (SWQMA). These practices include a 100-foot setback from navigable waters and their conduits, a 35-foot vegetated buffer adjacent to the navigable water or conduit, or a practice that provides equivalent pollutant reductions equivalent to or better than the 100-foot setback.

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

Monitoring and Sampling Requirements

The permittee must submit a monitoring and inspection program that outlines how the permittee will conduct self-inspections to determine compliance with permit conditions. These self-inspections include visual inspections of water lines, diversion devices, storage and containment structures and other parts of the production area. The permit requires

periodic inspections and calibrations of landspreading equipment. The permittee must take corrective actions to problems identified inspections or otherwise notify the Department. Samples of manure, process wastewater and soils receiving land applied materials from the operation must also be collected and analyzed.

Sampling Points

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

1.1 Sample Point Number: 001- WSF #1; 002- WSF #2

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

1.1.1 Changes from Previous Permit

None, this is a first-time issuance.

1.1.2 Explanation of Operation and Management Requirements

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

1.2 Sample Point Number: 003- WSF Solids; 004- Misc Solids; 005- Headland Stacks, and 009- Solid Stacking Pad

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,		lbs/ton	Quarterly	Calculated	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Available					
Solids, Total		Percent	Quarterly	Grab	

1.2.1 Changes from Previous Permit

None, this is a first-time issuance

1.2.2 Explanation of Operation and Management Requirements

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

1.3 Sample Point Number: 006- FSA Runoff; 007- Calf Hutch Area, and 008- Stormwater

1.3.1 Changes from Previous Permit

None, this is a first-time issuance.

1.3.2 Explanation of Operation and Management Requirements

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

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Develop a written Emergency Response Plan within 30 days of permit coverage, and submit to the Department.	04/01/2026

2.2 Explanation of Schedules

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

2.3 Monitoring & Inspection Program

Required Action	Due Date
Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program	05/01/2026

within 60 days of the effective date of this permit.	

2.4 Explanation of Schedules

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

2.5 Annual Reports

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

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

2.6 Explanation of Schedules

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

2.7 Nutrient Management Plan

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

Required Action	Due Date
Management Plan Submittal: Submit any necessary updates to the Nutrient Management Plan to meet the conditions outlined in this permit (see conditions in the Livestock Operational and Sampling Requirements section).	
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.	03/31/2026
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.	03/31/2027

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.	03/31/2028
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.	03/31/2029
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.	03/31/2030
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

2.8 Explanation of Schedules

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

2.9 Manure Storage Facility - Engineering Evaluation

Applicable to Sample Point 001, WSF #1 and Sample Point 009, solid manure stacking area

Required Action	Due Date
Retain Expert: Retain a qualified expert to complete an engineering evaluation for the manure storage facility known as WSF #1 & Solid manure stacking pad and report the name of the expert to the Department.	06/30/2026
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.)	12/31/2026
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.	09/30/2027
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.	06/30/2028

2.10 Explanation of Schedules

Engineering evaluation of Waste Storage Facility #1 (Sample Point 001) has been included per s. NR 243.16(1)Wis. Admin. Code as the Department has not previously evaluated the facility.

2.11 Manure Storage Facility - Abandonment

Applicable to Sample Point 002, WSF #2

Required Action	Due Date
Complete Abandonment: Complete abandonment as approved by the Department on 10/22/2025.	12/01/2026

Post construction documentation shall be submitted within 60 days of completion of the project.	

2.12 Explanation of Schedules

Engineering evaluation of Waste Storage Facility #2 (Sample Point 002) would have been included per s. NR 243.16(1) Wis. Admin. Code as the Department has not previously evaluated the facility, however the permittee chose Closure under NR 243.17(7) Wis. Admin. Code instead. Closure plans of the facility were approved by the department on 10/22/2025.

2.13 Waste Transfer System - Engineering Evaluation

Applicable to all existing Waste Transfer Systems on the farm.

Required Action	Due Date
Retain Expert: Retain a qualified expert to complete an engineering evaluation for the waste transfer system and report the name of the expert to the Department.	06/30/2026
Written Report: Submit a written report evaluating the existing waste transfer system'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.)	12/31/2026
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.	09/30/2027
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.	06/30/2028

2.14 Explanation of Schedules

Engineering evaluation of all existing Waste Transfer Systems has been included per s. NR 243.16(1) Wis. Admin. Code as the Department has not previously evaluated these facilities.

2.15 Feed Storage - Engineering Evaluation

Applicable to Sample Point 006, the permanent feed storage area. Specifically, the feed bunkers & feedpads, not the runoff controls

Required Action	Due Date
Retain Qualified Expert: The permittee shall retain a qualified expert to complete an engineering evaluation for the permanent feed storage area and report the name of the expert to the Department.	06/30/2026
Written Description of Existing System: Submit an engineering evaluation that includes a written description of the existing feed storage area and its adequacy to meet the conditions found in the Production Area Discharge Limitations subsection and NR 243.15, Wis. Adm. Code.	12/31/2026
Plans and Specifications: Submit plans and specifications for Department review and approval to	09/30/2027

permanently correct any adverse conditions identified as part of the engineering evaluation for the feed storage area in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code.	
Corrections and Post Construction Documentation: Complete construction of improvements to permanently correct 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.	06/30/2028

2.16 Explanation of Schedules

Engineering evaluation of Feed Storage Area (Sample Point 006) has been included per s. NR 243.16(1) Wis. Admin. Code as the Department has not previously evaluated the facility. This does not need to include an evaluation of the runoff controls as they will be addressed under the schedule immediately following.

2.17 FSA Runoff Control System - Installation

Applicable to the runoff control system for the permanent feed storage area, also known as Sample Point 006

Required Action	Due Date
Plans and Specifications: Submit plans and specifications for a permanent feed storage area runoff control system for Department review and approval in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code. See Standard Requirements for plan content information.	12/31/2026
Complete Installation: Complete construction of runoff control system. System shall be functional and in operation by the specified Date Due. Post construction documentation shall be submitted within 60 days of completion of the project.	07/31/2027

2.18 Explanation of Schedules

During an inspection that occurred on March 26, 2025, the department observed the Feed Storage Area and concluded that engineered runoff controls were not present. Engineering Plans & Specs of Feed Storage Area Runoff Controls (Sample Point 006) has been included per s. NR 243.15(9) Wis. Admin. Code to ensure the Feed Storage Area complies with the applicable production area requirements in s. NR 243.13 Wis. Admin. Code.

2.19 Calf Hutch Area Runoff Control System - Installation

Applicable to Sample Point 007, Calf Hutch Area

Required Action	Due Date
Plans and Specifications: Submit plans and specifications for a permanent calf hutch area runoff control system for Department review and approval in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code. See Standard Requirements for plan content information.	12/31/2026
Complete Installation: Complete construction of runoff control system. System shall be functional and in operation by the specified Date Due. Post construction documentation shall be submitted within 60 days of completion of the project.	07/31/2027

2.20 Explanation of Schedules

During an inspection that occurred on March 26, 2025, the department observed the Calf Hutch Area and concluded that engineered runoff controls were not present. Engineering Plans & Specs of Calf Hutch Area Runoff Controls (Sample Point 007) has been included per s. NR 243.15(2) Wis. Admin. Code to ensure the Calf Hutch Area complies with the applicable production area requirements in s. NR 243.13 Wis. Admin. Code.

2.21 Permanent Markers - Installation

Applicable to Sample Point 001, WSF #1

Required Action	Due Date
Complete Installation: Complete installation of permanent markers. The facility shall be functional and in operation by the specified Date Due.	07/31/2026

2.22 Explanation of Schedules

During an inspection that occurred on March 26, 2025, the department observed WSF #1 and concluded that Margin of Safety & Maximum Operating Level markers were not present. Installation of these markers has been included to ensure the WSF #1 complies with the applicable design requirements in s. NR 243.15 (3) (e).

2.23 Feed Storage Area - Abandonment

Applicable to all non permanent feed storage areas not described in Sample Point 006

Required Action	Due Date
Complete Abandonment: Complete abandonment of all non permanent Feed Storage Areas at production areas covered under this permit.	12/31/2026

2.24 Explanation of Schedules

During an inspection that occurred on October 15, 2025, the department observed feed stored in areas not included in the description of the permanent Feed Storage Area, Sample Point 006). To ensure feed stored at the production site complies with the applicable production area requirements in s. NR 243.13Wis. Admin. Code, all temporary feed storage areas must be abandoned.

2.25 Submit Permit Reissuance Application

Required Action	Due Date

Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	09/01/2030

2.26 Explanation of Schedules

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

Other Comments

None

Attachments

9/26/2025 Nutrient Management Plan Conditional Approval Letter

10/13/2025 Days of Storage Review Letter

10/22/2025 Conditional Approval of Plans & Specs for Abandonment of WSF #1

4/8/2025 Pre Permit Inspection Report

Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Brian Hanson Wastewater Specialist Date: 1/7/2026

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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September 26th, 2025

Waupaca County
Approval

Grady Auer
Bakake Acres, LLC
E8885 Worm Rd
New London, WI 54961

SUBJECT: Conditional Approval of Bakake Acres, LLC Nutrient Management Plan, WPDES Permit No. 0063274-01-0

Dear Grady Auer:

After completing a review of Bakake Acres, LLC 2026-2030 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 Bakake Acres, 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 504.2 animal units (303 milking & dry cows, 80 heifers, and 60 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 5,255,293 gallons of manure and process wastewater and 455 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 Bakake Acres, LLC currently has 755 acres (200 owned and 555 controlled through contracts, rental agreements or leases, or under manure agreements) of which 740 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 2026-2030 Bakake Acres, 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 ID	Other Permittee Name:	Other Permittee Site ID-Field I	DNR #:
B3	AGROPUR INC WEYAUWEGA PLANT	TB1-7	20097
B4B	AGROPUR INC WEYAUWEGA PLANT	TB1-7	20097
B4B	AGROPUR INC WEYAUWEGA PLANT	TB1-8	20098
DE4	AGROPUR INC WEYAUWEGA PLANT	TT1-3	109478
DE5	AGROPUR INC WEYAUWEGA PLANT	TT1-4	109479
K4	AGROPUR INC WEYAUWEGA PLANT	DK1-3	109668
K5	AGROPUR INC WEYAUWEGA PLANT	DK1-2	109667
K6	AGROPUR INC WEYAUWEGA PLANT	DK1-1	109666
T4-5	AGROPUR INC WEYAUWEGA PLANT	AT1-2	108696
T6	AGROPUR INC WEYAUWEGA PLANT	AT1-2	108696
T7	AGROPUR INC WEYAUWEGA PLANT	AT1-2	108696
T8	AGROPUR INC WEYAUWEGA PLANT	AT1-2	108696
T9	AGROPUR INC WEYAUWEGA PLANT	AT1-2	108696
W1 2 3	AGROPUR INC WEYAUWEGA PLANT	TB1-8	20098
W1 2 3	AGROPUR INC WEYAUWEGA PLANT	TB1-9	108284
W4 5	AGROPUR INC WEYAUWEGA PLANT	TB1-10	108285
W6	AGROPUR INC WEYAUWEGA PLANT	TB1-10	108285

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

3. If existing fields yield a soil test results equal to or greater than 200 ppm P, those fields would be prohibited from receiving manure or process wastewater applications, unless you obtain Department approval in accordance with NR 243.14(5)(b)2., Wis. Adm. Code.

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

5. 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, Bakake Acres, LLC may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

$$\text{First-Year Available N} = NH_4\text{-N} + [0.25 \times (\text{Total N} - NH_4\text{-N})]$$

6. Bakake Acres, LLC shall record daily manure applications by using form 'Bakake Acres Daily Manure Application Log' or 'Daily Log' generated by Snap Plus. These forms shall be retained at the farm and provided to the department upon request.

7. Bakake Acres, LLC shall annually submit a spreading report that summarizes the land application activities listed under NR 243.19(3)(c)5., Wis. Adm. Code by using 'CAFO Annual Spreading Report' generated by Snap Plus.

WINTER SPREADING

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

9. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:

- D	- E	- F
- B3	- B4B	- W1 2 3
- W4 5	- W6	- G
- H	- DE5	- K4
- K5	- K6	- PE1
- PE2	- PE3	- PE4
- DE4	- BY	- G01
- M123	- B1	

10. Winter spreading of solid and liquid manure may not occur during the "high risk runoff period" pursuant to s. NR 243.14(6)(c) and NR 243.14(7)(c), respectively.

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

12. Liquid applications shall be limited to 3,500 gallons per acre or 30 lbs. P per acre, whichever is less, on slopes 2-6% and 7,000 gallons per acre or 60 lbs. P per acre, whichever is less, on slopes 0-2%. Winter applications of solid manure shall be limited to 60 lbs. P per acre.

HEADLAND STACKING

13. The following headland stacking sites are approved for use with >32% solids only during February and March, or when ground is not frozen or snow-covered during remainder of the year. These sites are subject to the outlined use guidelines referenced below.
    - Sites may only be used for 1 year out of every 2 years.
    - Stacking site area may not exceed ≤40,000 cubic feet.
    - Stacking interval not to exceed 8 months.
    - No manure less than 32% solids can be stacked here due to the slope range of 2-6%.

- Field F Site #1	- Field H Site #1	- Field G Site #1

MANURE & PROCESS WASTEWATER IRRIGATION

14. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

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

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

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

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

Sincerely,

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

cc: Brian Hanson, WDNR Agricultural Runoff Management Specialist (brian.hanson@wisconsin.gov)
Joe Baeten, WDNR Agricultural Runoff Supervisor (joseph.baeten@wisconsin.gov)
Erin Hanson, Acting WDNR Runoff Management Section Chief (erin.handson@wisconsin.gov)
Aaron O'Rourke, WDNR Nutrient Management Program Coordinator (aaron.orourke@Wisconsin.gov)
Falon French, WDNR Intake Specialist (falon.french@wisconsin.gov)
Rob Davis, WDNR CAFO Engineer (robert.davis@wisconsin.gov)
Brian Haase, Waupaca County (brian.haase@co.waupaca.wi.us)
Kevin Beckard, Agsource (kevin.beckard@agsource.com)
File

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Madison WI 53707-7921

Tony Evers, Governor
Karen Hyun, Ph.D., Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
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October 13, 2025

FILE REF: R-2025-0224
WPDES Permit #: WI-0063274

Grady Auer
Bakake Acres LLC
E8885 Worm Road
New London, WI 54961

Subject: Days of Storage Review for Bakake Acres LLC in T23N, R14E, Section 34, Lebanon Township, Waupaca County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Auer:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has completed its review of the calculation of days of storage submitted by Emily Micolichek, P.E., Miller Engineers & Scientists on September 2, 2025 on behalf of Bakake Acres 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 Bakake Acres LLC has 588 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 504. No expansion information is included in the submittal. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values for a collection period of 365 days. There is no leachate or contaminated runoff collection from the feed storage area. The concrete alley/lot drains directly to WSF1, which provides full runoff collection from this area.

Existing Condition (504 AU) – 588 Days of Storage

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	**Annual Gallons**
Manure and Bedding:	2,581,829
Parlor Wastewater:	807,344
Total Feed Storage Leachate:	0
Total Feed Storage Runoff Collected:	0
Concrete Alley/Lot Runoff Collected (Drains Directly to WSF1):	81,744
Net Precipitation on Storage Surfaces:	1,784,375
Total Liquid Waste Stored Below the MOL:	**5,255,292**

Total Liquid Waste Storage Capacity (Gallons)						
Waste Storage	Total Volume from Top to Bottom	-Remaining Solids	-25-yr, 24-hr Precipitation on Storage	-25-yr, 24-hr Collected Runoff	-Freeboard Volume	Max. Operating Level (MOL) Volume
WSF1	8,792,857	356,701	299,676	10,568	822,411	7,303,501
WSF2	1,487,503	76,122	65,310	0	176,718	1,169,353
					Total MOL Volume:	8,472,854

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.
CAFO Review Engineer
Watershed Management Program

Email: Grady Auer; Bakake Acres
(920) 538-1183; auerfam@gmail.com

Emily Micolichek, P.E.; Miller Engineers
(920) 458-6164; emicolichek@startwithmiller.com

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

Brian Haase; Waupaca County
(715) 258-6245; brian.haase@co.waupaca.wi.us

Brian Hanson; DNR, Northeast Region
(920) 366-3302; Brian.Hanson@wisconsin.gov

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

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

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

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October 22, 2025

FILE REF: R-2025-0251
WPDES Permit #: WI-0063274

Grady Auer
Bakake Acres LLC
E8885 Worm Road
New London, WI 54961

Subject: Conditional Approval of Plans & Specifications for Abandonment of the Existing WSF 2 and Associated Waste Transfer Pipe at Bakake Acres LLC in T23N, R14E, Section 34, Lebanon Township, Waupaca County

Dear Mr. Auer:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has reviewed and conditionally approves the above referenced abandonment plans completed by Corey Schuelke and Greg Peterson, Waupaca County Land & Water Conservation Department. The plans were submitted by Emily Micolichek, P.E., Miller Engineers & Scientists on behalf of Bakake Acres and were received on October 16, 2025. The review was conducted in accordance with s. 281.41, Wis. Stats., chs. NR 151 and NR 243, Wis. Adm. Code, and applicable NRCS Standards. The paragraph below describes the abandonment project, lists standards that apply and provides compliance analysis. Questions may be directed to the assigned regional staff or the review engineer Rob Davis (contact information is at the end of this letter).

Abandonment: The proposed plan was submitted for the abandonment of WSF 2 and the associated 120 ft of 12 inch diameter PVC waste transfer pipe. The plan is compliant with s. NR 243.17(7), Wis. Adm. Code. The plans propose to remove all waste and contaminated soils from the storage facility and land applying in accordance with the farm's approved Nutrient Management Plan. A minimum of 6 inches of soil will be removed from the surface of the storage facility that will also be land applied. The site will be investigated and contaminated soils will be removed. Fill will be placed to bring the facility elevations back up to surrounding grades and final grades will have positive drainage away from the site. Any associated waste transfer pipes will be removed or plugged.

DAYS OF AVAILABLE LIQUID WASTE STORAGE: The submitted information states that Bakake Acres will have 540 days of liquid waste storage, after the abandonment of WSF 2, based on the volumes listed in the table below with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. However, because WSF 1 will require an evaluation be completed as part of the WPDES permitting process, the number of days of storage may actually be less than 540 in accordance with s. NR 243.15(3). The number of days of storage will change once the evaluations for the waste storages require no further actions. The current number of animal units provided for the calculation is 504. No expansion information is included in the submittal. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values for a collection period of 365 days. There is no leachate or contaminated runoff collection from the feed storage area. The concrete alley/lot drains directly to WSF1, which provides full runoff collection from this area.

Proposed Condition After Removal of WSF 2 (504 AU) – 540 Days of Storage

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	**Annual Gallons**
Manure and Bedding:	2,581,829
Parlor Wastewater:	807,344
Total Feed Storage Leachate:	0
Total Feed Storage Runoff Collected:	0
Concrete Alley/Lot Runoff Collected (Drains Directly to WSF1):	81,744
Net Precipitation on Storage Surfaces:	1,465,081
Total Liquid Waste Stored Below the MOL:	**4,935,998**

Total Liquid Waste Storage Capacity (Gallons)						
Waste Storage	Total Volume from Top to Bottom	-Remaining Solids	-25-yr, 24-hr Precipitation on Storage	-25-yr, 24-hr Collected Runoff	-Freeboard Volume	Max. Operating Level (MOL) Volume
WSF1	8,792,857	356,701	299,676	10,568	822,411	7,303,501
					Total MOL Volume:	7,303,501

Approval: The abandonment plans for project number R-2025-0251 are hereby approved and subject to chs. NR 151 and NR 243, Wis. Adm. Code.

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

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

NOTICE OF APPEAL RIGHTS

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

you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

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

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
For the Secretary

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

Rob Davis, P.E.
CAFO Review Engineer
Watershed Management Program

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Corey Schuelke; Waupaca County
(715) 258-6483; corey.schuelke@co.waupaca.wi.us

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

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TTY Access via relay - 711

4/8/2025

Grady Auer
N5271 Madden Rd
New London, WI 54961

Waupaca County

Subject: Pre-WPDES Compliance Inspection Report

Dear Mr. Auer:

On March 26th, 2025, the Department of Natural Resources (department) conducted a pre-permit issuance walkover inspection of Bakake Acres LLC. Results and photos are included in the enclosed report.

Page 40 of the enclosed report includes a detailed list of "Materials Required as part of the Permit Application". Please review this section carefully.

The department will continue to review Bakake Acres LLC WPDES application materials once a final application is received. the Department of Natural Resources (department)

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

Sincerely,

Brian Hanson

Brian Hanson
Agricultural Runoff Management Specialist

Enclosure: 3/26/2025 CAFO Compliance Inspection Report
12/13/2024 Notice of Discharge Update Letter

Electronic copy: Brian Haase- Waupaca County
Joe Baeten - DNR
Mike Kiddy –Kiddy Crop Consulting
Andy Dexheimmer – Miller Engineers

CAFO Compliance Inspection Report

Inspection Date: 3/26/2025

Report Final Date: 4/8/2025

Operation Name: Bakake Acres LLC

Farm Address:: **Main Dairy:** E8865 County Rd T, New London, WI 54961 ; NE 1/4 of NE 1/4 Sec 34 T 23N R14E

On-Site Representative(s): Grady Auer

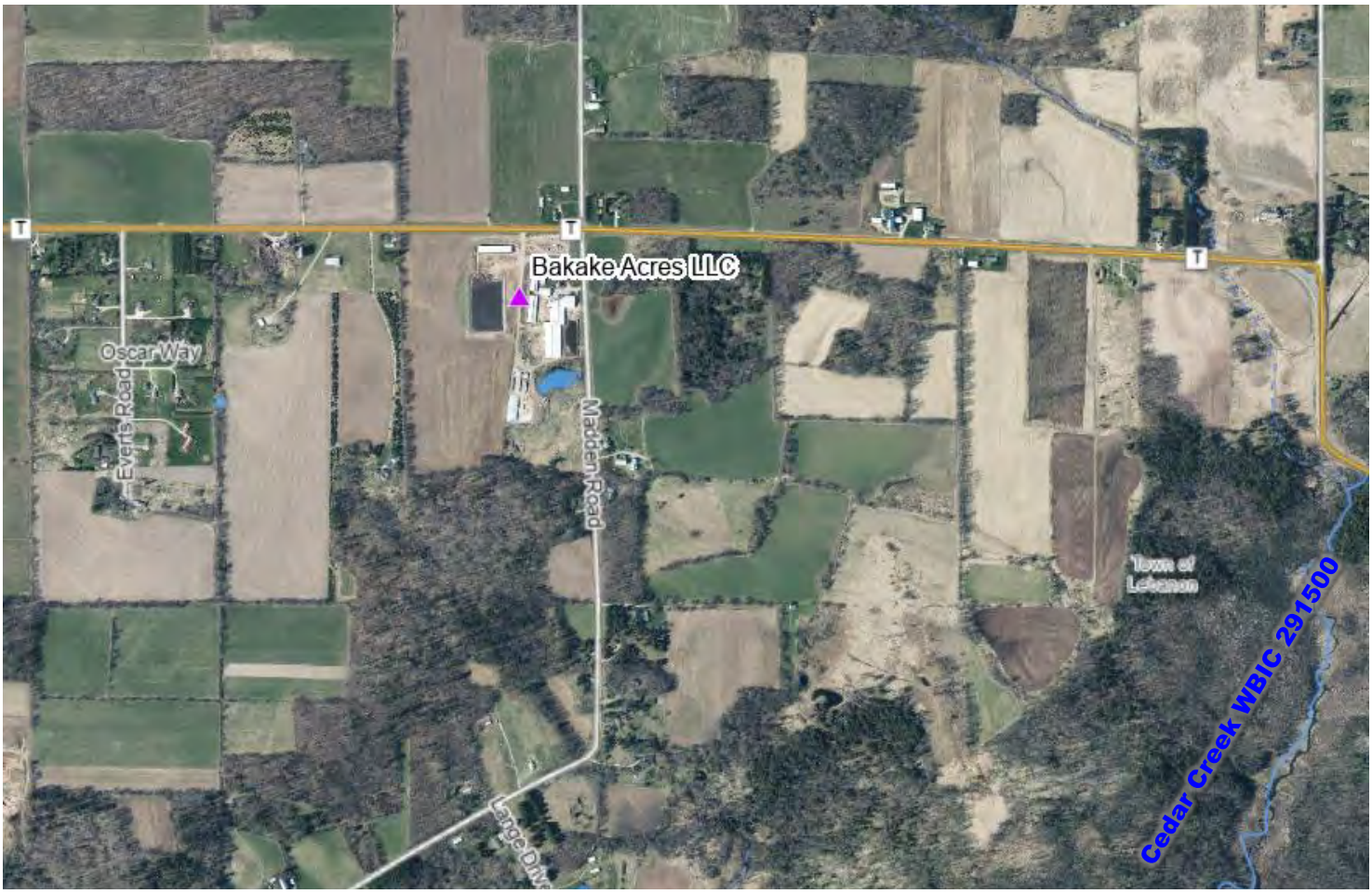
Report Author: Brian Hanson: DNR Agricultural Runoff Specialist

Others Participating: Trent Brenny-DNR ; Corey Schuelke-Waupaca County

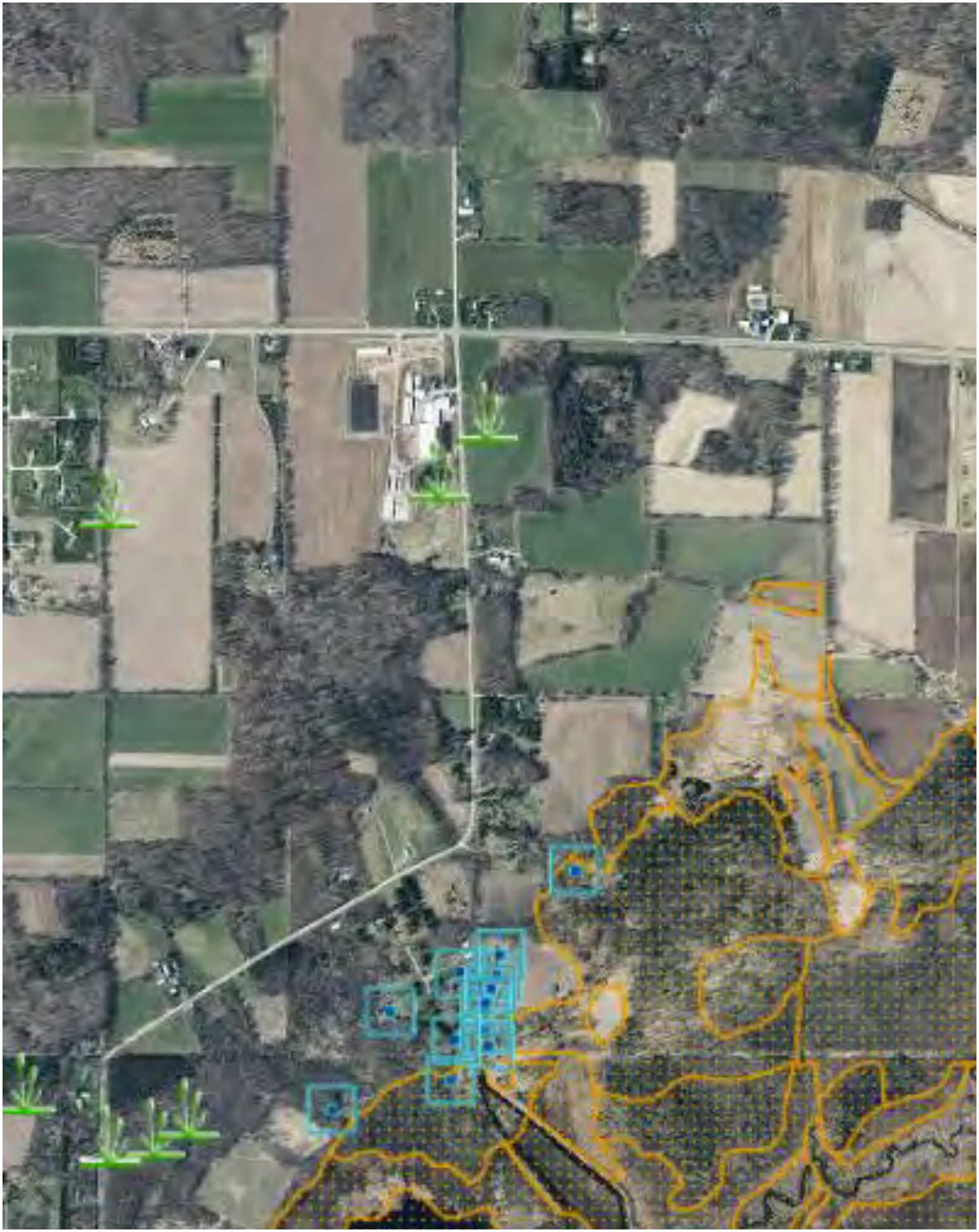
Introduction

On Wednesday March 26th, 2025 Hanson & Brenny met with Auer & Schuelke at 13:00 at Bakake Acres LLC site to conduct a pre WPDES permit compliance inspection. The main dairy site was the only site inspected. According to Auer, the farm does not have any feed, manure or animals on any other sites. The area received a few inches of snow couple days earlier and the temperature was in the 40's and sunny, leading to some spring melting. Hanson & Brenny departed at approximately 14:15.

Site Overview Diagram (Main Dairy)



Site Overview Diagram: Wetland Map



Site Overview Diagram (Main Dairy: orange lines =potential contaminated runoff, blue lines = stormwater flow, pink lines = waste transfer system, yellow circles = well locations)

SITE OBSERVATIONS :

Feedlot Runoff (See pages 7-10 for photos)

There are currently no outdoor feedlots on the farm, but there are 3 area that have the potential to produce contaminated runoff.

The first area identified that is capable of producing contaminated runoff is a concrete scrape alley between the Heifer barn & WSF #1 in the northwest corner of the production site. The farm utilizes this area to scrape manure from the heifer barn directly into WSF #1. This area consists of a concrete floor & has concrete curbing to prevent manure & runoff from leaving the scrape alley. This facility was included in the design of WSF #1 when it was constructed in 2017. The concrete scrape alley is well maintained, and appears to functioning as designed. No evidence of current or past discharges from the alley were present during the inspection.

The second area capable of producing contaminated runoff is a combination cattle walkway/ scrape alley located between the main freestall barn and the smaller freestall barn to the west. The south half of this area is used as a manure scrape alley to transfer manure from the smaller freestall barn to the reception tank located on the west side of main freestall barn. This scrape alley has concrete curbs to prevent manure & runoff from leaving the scrape alley All manure & runoff from this portion is collected and pumped to WSF #1 for long term storage. The concrete scrape alley is well maintained, and appears to functioning as designed. No evidence of current or past discharges from the alley were present during the inspection.

The north half of this area is used as a cattle walkway. Cows from the smaller freestall barn use this walkway to gain access to the main barn & milking parlor. This portion only contains a curb on the south side to keep it separate from the scrape ally. The north side does not have any runoff controls. Due to this fact manure & contaminated runoff has the ability to leave the concrete walkway and enter the stormwater channel. The concrete walkway is not well maintained, and appears to discharging directly into the stormwater channel and culvert. Evidence of current or past discharges from the alley were present during the inspection. See photo log for further details.

The third area is a small alley on the south side of the main freestall barn. Prior to construction of the waste transfer system in 2017, the manure in the main freestall barn was scraped to the south end of the barn & then scraped to the east directly into WSF #2. Now, all manure is scraped to the waste transfer system in the center of the main freestall barn. However a large section of the main freestall barn still sloped to the south so liquids migrate to the existing alley on the south side of the main freestall barn. At the time of inspection the alley did contain some ponded manure liquids. A combination of curbing and barn walls were keeping the liquids from existing the freestall barn. The farm should continue to monitor this area daily to ensure the ponded liquids do not leave the confines of the freestall barn.

Calf Hutch Areas (See pages 10-13 for photos)

There is currently 1 calf hutch area located on the farm at this time. The current calf hutch area is located on the northeast corner of the production site along County Rd T. This area is an earthen/gravel pad that is approximately 1/3 acre in size. Calf hutches are individual units that do not include outdoor areas for the calves, however feed buckets are on the exterior of the hutch. At the time of inspection the calf hutch area did not have any runoff controls installed. Runoff from the calf hutch area generally flows in to the east towards the road ditch of Madden Road. There was also a large unconfined pile of waste calf hutch bedding located on the south side of the calf hutch area.

Waste Storage Facilities (See pages 13-24 for photos)

There is currently 2 liquid waste storages facility located on the farm.

WSF #1 is a concrete lined impoundment at the main dairy site located to the west of the freestall barns that was built in 2017. This facility accepts all manure and process wastewater generated in the freestall barns& parlor. Manure from the heifer barn is also scraped directly into this facility. The north end of the facility is a ramp used to remove manure & sand solids. Manure and sand solids were present at the top of the concrete liner, especially in the southeast corner of the pit indicating the WSF had been operating above the MOL & MOS level in the recent past. A buildup of sand solids was also present along the south edge of WSF #1. These sand solids were above the liquid manure level in the facility. Auer explained that they got some of the sand hauled out in December, but were not able to get all of it. 2 markers were present along the west side of the WSF. A rebar stuck into the concrete liner is presumed to be the MOL marker and an orange painted line is presumed to be the MOS marker.

Waste Storage Facilities (Continued)

WSF #1 appears to be in good repair, but evidence implies that it may have been operating over the maximum operating level or may have overtopped in the recent past.

WSF #2 is an earthen lined impoundment with a concrete floor at the main dairy site located to the east of the freestall barns that was built in the early 2000's. This facility no longer accepts any manure or process wastewater generated on the farm. Right now the farm's plan is to abandon this facility. Waupaca County has abandonment plans completed, and the farm is looking to obtain cost share funds to follow through with abandonment. Manure and sand solids were present at the top of and outside the earthen liner, especially in the southeast corner of the pit indicating the WSF had been operating above the MOL & MOS level in the recent past. A buildup of sand solids was also present along the south & west edge of WSF #2. Auer explained that they sucked as much liquid out as possible in last fall, but did not remove any solids. No markers were present in the WSF. Ponded runoff consistent with the color of manure was present in multiple locations on the east side of WSF #2 near the road ditch for Madden Road.

WSF #2 appears to be in good repair, but evidence implies that it may have been operating over the maximum operating level or may have overtopped in the recent past.

There is 1 permanent solid stacking facility on the farm. This facility is located in between the small freestall barn & the heifer barn. The solids stacking area consists of a concrete floor and concrete walls on 3 sides. This facility dos not have engineered runoff controls and runoff has the potential to flow south across the gravel area in between the freestall barns and mix with stormwater collection channel.

An unconfined manure pile was also present on the south side of the calf hutch area. Discarded bedding and manure from the calf hutches was stacked here on bare earth.

Process Wastewater

Milking parlor wash water at the dairy is collected and mixed with the manure from the dairy barns in is eventually stored in WSF #1 for long term storage

.

Feed Storage Area (FSA) Runoff (See pages 25-35 for photos)

There is currently 1 feed storage area located on the farm at the main dairy on the south end of the production area.

The feed storage area (FSA) consists of a series of 3 concrete bunkers and 1 concrete feedpad that total approximately 1.1 acres in area.

The north 1/2 of the FSA isa set of 2 concrete bunkers. These bunkers are generally sloped to the south towards the center drive alley, but due to feed being stored beyond the bunker walls on the north end, leachate and runoff was visible running off the FSA and to the east towards the stormwater channel. The bunkers walls on this section looked quite old and had multiple areas where the concrete was cracked and the straps holding them together were broken.

The southern 1/2 of the FSA consists of 1 bunker and 1 concrete feedpad. Generally speaking this 1/2 of the FSA slopes to the north towards the center drive alley which then slopes to the east.

Due to lack of engineered runoff controls, runoff from the center drive alley of the FSA flows to the east off of the edge of the FSA. Runoff previous flowed towards the pond south of the main freestall barn, but in the fall of 2024, Auer dug a trench on the east side of the FSA to divert the runoff from reaching the pond. Runoff now flows through this trench to a depressional area south of the FSA.

The feed storage area is not well-maintained, does not have engineered runoff controls, & had signs of discharges leaving the production site. Until permanent feed storage area & runoff controls are installed, the farm should monitor for any discharge leaving the feed storage areas and install interim best management practices as necessary to prevent a discharge to waters of the state.

Water Supply Wells: (See pages 37-38 for photos)

According to Auer there are currently 2 wells located at the Dairy. There is 1 well located on the east side of house the was dug in 1978 and another well located at the southwest corner of the calf hutch area that was drilled in 2017.

Animal Units

At the time of inspection Auer indicated that the animal units currently at the farm were consistent with the numbers he submitted with the preliminary WPDES application, see below. .

- 333 Milking & Dry Cows = 466 AU 166 Large Heifers = 183 AU
- 60 Small Heifers= 36 AU 90 Calves = 18 AU Total Current Animal Units=703
- Total Animal Units = 445 AU

According to Auer, the farm was in the process of selling about 100 cows and would then look to sell a group of heifers. With these animals gone, the small freestall shed and the adjacent heifer barn would no longer be utilized to house cattle

Animal Mortality Disposal

Mortalities are picked up daily as needed by OJ Krull.

Ancillary Service Areas (See pages 36-37 for photos)

The farm should be implementing preventative maintenance actions and visual inspections to minimize pollutant discharges from ancillary service and storage areas (i.e. storm water conveyance systems, driveways, etc.). At the time of the inspection, all stormwater channels were well vegetated, but runoff from the solids stacking area, cattle walkway and feed storage area were mixing with the stormwater flow and most likely draining to the onsite pond. Farm should manage these areas to minimize the chance of runoff from the production area.

The farm does not have any permanent CAFO outdoor vegetated areas as part of their operation. Auer stated that he does occasionally let an injured cow utilize the grassed area around the pond until their injury has healed, but never more than 1 or 2 at a time.

Photo #:	1
Date/Time of Photo:	3/26/2025 13:41
Photo By:	Brian Hanson
Photo Location:	Main Freestall Barn

Photo Description:

Standing on the south end of the main freestall barn looking east: View of concrete alley on south end of barn. Litter alleys slope to the south and liquids accumulate in this alleyway. Farm should inspect this area often to make sure liquids do not leave the barn.

Photo #:	2
Date/Time of Photo:	3/26/2025 13:57
Photo By:	Brian Hanson
Photo Location:	West Freestall Barn

Photo Description:

Standing on the south end of the west freestall barn looking east: View of concrete alley used to scrape manure from the west freestall barn to the transfer system in the main freestall barn. Scrape alley has concrete curbs and slopes to the east.

Photo #:	3
Date/Time of Photo:	3/26/2025 13:58
Photo By:	Brian Hanson
Photo Location:	Main Freestall Barn

Photo Description:

Standing on the west side of main freestall barn looking east: View of east end of scrape ally shown in photo #2 where manure is scraped into reception tank of the manure transfer system.

Photo #:	4
Date/Time of Photo:	3/26/2025 13:29
Photo By:	Brian Hanson
Photo Location:	Waste Transfer System

Photo Description:

Standing on the east side of WSF # 1 looking east: View of inline transfer pipe valve and cleanouts located between manure pump & WSF #1.

Photo #:	5
Date/Time of Photo:	3/26/2025 13:57
Photo By:	Brian Hanson
Photo Location:	Cattle Walkway

Photo Description:

Standing on the south end of the west freestall barn looking east: View of concrete walkway used to transfer cows from the west freestall barn to the parlor to be milked. Arrow indicates direction of runoff flow.

Photo #:	6
Date/Time of Photo:	3/26/2025 13:58
Photo By:	Brian Hanson
Photo Location:	Cattle Walkway

Photo Description:

Standing on the west side of the main freestall barn looking west: View of the cattle walkway near the main freestall barn. Arrows indicate direction of runoff flow.

Photo #:	7
Date/Time of Photo:	3/26/2025 13:56
Photo By:	Brian Hanson
Photo Location:	Cattle Walkway

Photo Description:

Standing on the north side of the cattle walkway looking south: View of runoff from the concrete walkway entering the stormwater channel. Arrows indicate direction of runoff flow. Red circle shows location of stormwater culvert under cattle walkway.

Photo #:	8
Date/Time of Photo:	3/26/2025 14:04
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area

Photo Description:

Standing on the east side of the calf hutch area looking west: View of the north edge of the calf hutch area.

Photo #:	9
Date/Time of Photo:	3/26/2025 14:06
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area

Photo Description:

Standing in the middle of the calf hutch area looking west: View of the southern portion of the calf hutch area.

Photo #:	10
Date/Time of Photo:	3/26/2025 14:06
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area

Photo Description:

Standing on the east side of the calf hutch area looking south & down: View of ponded runoff in the calf hutch area.

Photo #:	11
Date/Time of Photo:	3/26/2025 14:06
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area

Photo Description:

Standing in the middle of the calf hutch area looking east: View of east end of calf hutch area. Arrows indicate direction of runoff flow. Runoff flows east towards Madden Road ditch.

Photo #:	12
Date/Time of Photo:	3/26/2025 14:06
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area

Photo Description:

Standing in the middle of the calf hutch area looking east & down: View of spilled milk in front of a few calf hutches.

Photo #:	13
Date/Time of Photo:	3/26/2025 14:06
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area

Photo Description:

Standing on the west side of the calf hutch area looking south: View of used calf hutch bedding piled on the south side of the calf hutches.

Photo #:	14
Date/Time of Photo:	3/26/2025 13:21
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on the north side of WSF #1: View of the northeast corner of WSF #1.

Photo #:	15
Date/Time of Photo:	3/26/2025 13:21
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on the north side of WSF #1 looking west: View of north end of WSF #1. Notice entire north side slope can be used as a ramp to enter the facility.

Photo #:	16
Date/Time of Photo:	3/26/2025 13:21
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on the west side of WSF #1 looking east: Alternate view of the north end of WSF #1. Notice heifer barn push off alley on left side of photo.

Photo #:	17
Date/Time of Photo:	3/26/2025 13:24
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on the west side of WSF #1 looking south: View of the west side of WSF #1. Highlighted area shows location of markers in photo #18

Photo #:	18
Date/Time of Photo:	3/26/2025 13:25
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on the west side of WSF #1 looking south & down: View of MOL & MOS markers. Base of rebar meant to be MOL and orange line meant to be MOS.

Photo #:	19
Date/Time of Photo:	3/26/2025 13:25
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on the west side of WSF #1 looking south: View of southwest corner of WSF #1

Photo #:	20
Date/Time of Photo:	3/26/2025 13:26
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on west side of WSF #1 looking east: View of south edge of WSF #1

Photo #:	21
Date/Time of Photo:	3/26/2025 13:28
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on the south side of WSF #1 looking north: View of south end of WSF #1 near transfer pipe outlet. Notice sand berm in south end of WSF #1 that was not removed last fall.

Photo #:	22
Date/Time of Photo:	3/26/2025 13:28
Photo By:	Brian Hanson
Photo Location:	WSF #1

Photo Description:

Standing on the south side of WSF #1 looking north: View of southeast corner of WSF #1.

Photo #:	23
Date/Time of Photo:	3/26/2025 13:23
Photo By:	Brian Hanson
Photo Location:	Heifer Barn Scrape Alley

Photo Description:

Standing on the north side of WSF #1 looking north: View of concrete scrape ally used to transfer manure from the heifer barn to WSF 1.

Photo #:	24
Date/Time of Photo:	3/26/2025 13:23
Photo By:	Brian Hanson
Photo Location:	Heifer Barn Scrape Alley

Photo Description:

Same location as photo #23 looking south: View of scrape alley as it enters WSF #1

Photo #:	25
Date/Time of Photo:	3/26/2025 13:45
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the south side of WSF #2 looking west: View of manure push in channel from main freestall barn. This is an extension of the alley shown in photo #1. Farm no longer uses this channel as all manure is now pumped to WSF #1.

Photo #:	26
Date/Time of Photo:	3/26/2025 13:45
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the south side of WSF #2 looking north: View of south west corner of WSF #2. Notice solids accumulation along south & west sides of WSF #2.

Photo #:	27
Date/Time of Photo:	3/26/2025 13:46
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the south side of WSF #2 looking north: View of southeast corner of WSF #2.Notice manure solids up against the wire fence above the top of the WSF.

Photo #:	28
Date/Time of Photo:	3/26/2025 13:46
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the east side of WSF #2 looking north: View of exterior side slope of WSF #2 at same location as photo #27. Notice manure solids and ponded runoff present outside of WSF.

Photo #:	29
Date/Time of Photo:	3/26/2025 13:46
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the east side of WSF #2 looking northeast: Close up view of ponded runoff in photo #28. Notice very dark color consistent with manure runoff.

Photo #:	30
Date/Time of Photo:	3/26/2025 13:47
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the east side of WSF #2 looking southwest: View of south edge of WSF #2. Notice push in ramp shown in photo #25.

Photo #:	31
Date/Time of Photo:	3/26/2025 13:48
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the east side of WSF #2 looking north: View of more ponded runoff on east side of WSF #2. Notice dark color consistent with manure runoff.

Photo #:	32
Date/Time of Photo:	3/26/2025 13:49
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on east side of WSF #2 looking west: View of north edge of WSF #2.

Photo #:	33
Date/Time of Photo:	3/26/2025 13:51
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the north side of WSF #2 looking southeast: View of northeast corner of WSF #2.

Photo #:	34
Date/Time of Photo:	3/26/2025 13:51
Photo By:	Brian Hanson
Photo Location:	WSF #2

Photo Description:

Standing on the north side of WSF #2 looking southwest: View of northwest corner of WSF #2.

Photo #:	35
Date/Time of Photo:	3/26/2025 13:54
Photo By:	Brian Hanson
Photo Location:	Solids Stacking

Photo Description:

Standing on the west side of machine shed looking west: View of concrete area between small freestall barn & heifer barn used to store solid manure. Arrows indicate direction of runoff flow.

Photo #:	36
Date/Time of Photo:	3/26/2025 13:55
Photo By:	Brian Hanson
Photo Location:	Solids Stacking

Photo Description:

Standing on east side of solids stacking area looking south: View of runoff flow path from solids stacking area. Arrows indicate direction of runoff flow. Runoff flows to culvert shown in photo #7.

Photo #:	37
Date/Time of Photo:	3/26/2025 13:30
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the north side of FSA looking east: View of north side of FSA. Notice lack of runoff controls.

Photo #:	38
Date/Time of Photo:	3/26/2025 13:30
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the north side of feed storage area looking east: View of north edge of FSA where runoff enters gravel driveway. Notice dark colored ponded runoff consistent with feed leachate. Arrows indicate direction of runoff flow.

Photo #:	39
Date/Time of Photo:	3/26/2025 13:31
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the west side of FSA north bunkers looking east & up: View of bunker wall connection. Notice bunker walls are deteriorating and connection straps are broken.

Photo #:	40
Date/Time of Photo:	3/26/2025 13:31
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the west side of FSA looking south: View of west edge of FSA between the 2 sets of bunker walls.

Photo #:	41
Date/Time of Photo:	3/26/2025 13:32
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the west side of FSA looking east: View of center section between bunkers. Arrows indicate direction of runoff flow.

Photo #:	42
Date/Time of Photo:	3/26/2025 13:32
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the west side of FSA looking south: View of west edge of FSA & south bunker.

Photo #:	43
Date/Time of Photo:	3/26/2025 13:33
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the west side of FSA looking north: View of west edge of FSA & north bunker.

Photo #:	44
Date/Time of Photo:	3/26/2025 13:33
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on west side of FSA looking south: View of west wall of south bunker. These bunker walls in much better shape than north bunkers.

Photo #:	45
Date/Time of Photo:	3/26/2025 13;34
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the south side of FSA looking east: View of south edge of south bunker.

Photo #:	46
Date/Time of Photo:	3/26/2025 13:35
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on south side of feedpad looking northeast: View of south part of southeast feedpad area.

Photo #:	47
Date/Time of Photo:	3/26/2025 13:35
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the south side of FSA looking east: View of south edge of southeast feedpad. Arrows indicate direction of runoff flow.

Photo #:	48
Date/Time of Photo:	3/26/2025 13:35
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing in the center of the southeast feedpad looking north: View of north edge of feedpad. Arrows indicate direction of runoff flow.

Photo #:	49
Date/Time of Photo:	3/26/2025 13:35
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the east side of FSA looking north: View of east edge of FSA. Notice areas of ponded runoff. Arrows indicate direction of runoff flow.

Photo #:	50
Date/Time of Photo:	3/26/2025 13:36
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on east side of FSA looking north: Close up view of ponded runoff on east side of FSA. Notice dark color of runoff consistent with leachate contamination.

Photo #:	51
Date/Time of Photo:	3/26/2025 13:36
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on east side of FSA looking south: View of earthen area east of FSA. Arrows indicate direction of runoff flow.

Photo #:	52
Date/Time of Photo:	3/26/2025 13:36
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing east of FSA looking south: View of earthen trench dug in 2024 to divert FSA runoff from entering adjacent pond.

Photo #:	53
Date/Time of Photo:	3/26/2025 13:36
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on east side of FSA looking south: View of area where runoff from FSA is flowing towards trench. Arrows indicate direction of runoff flow.

Photo #:	54
Date/Time of Photo:	3/26/2025 13:37
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Close up view of photo #53. Notice dark colored runoff consistent with leachate flowing into trench and flowing to the south.

Photo #:	55
Date/Time of Photo:	3/26/2025 13:37
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on east side of FSA looking north: View of trench dug to divert FSA runoff. Notice proximity to depressional pond on right side of photo.

Photo #:	56
Date/Time of Photo:	3/26/2025 13:38
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on east side of FSA looking north: View of east edge of the north bunkers. No leachate or ponded runoff present on this gravel driveway.

Photo #:	57
Date/Time of Photo:	3/26/2025 13:39
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Standing on the north side of FSA looking northeast: View of gravel drive off the northeast corner of FSA.

Photo #:	58
Date/Time of Photo:	3/26/2025 13:39
Photo By:	Brian Hanson
Photo Location:	Feed Storage Area

Photo Description:

Close up view of the right side of photo 57: View of FSA runoff mixing with ponded stormwater runoff in gravel driveway.

Photo #:	59
Date/Time of Photo:	3/26/2025 13:22
Photo By:	Brian Hanson
Photo Location:	Stormwater Runoff

Photo Description:

Standing on north side of WSF #1 looking west & down: View of stormwater inlet used to convey stormwater underneath concrete scrape alley from heifer barn.

Photo #:	60
Date/Time of Photo:	3/26/2025 13:23
Photo By:	Brian Hanson
Photo Location:	Stormwater Runoff

Photo Description:

View of outlet pipe for inlet in photo #59 on west side of heifer barn scrape alley.

Photo #:	61
Date/Time of Photo:	3/26/2025 13:40
Photo By:	Brian Hanson
Photo Location:	Stormwater Runoff

Photo Description:

Standing at the southwest corner of the main freestall barn looking north: View of grassed area used to convey runoff from the culvert shown in photo #7 to the pond south of the freestall barn.

Photo #:	62
Date/Time of Photo:	3/26/2025 13:52
Photo By:	Brian Hanson
Photo Location:	Well Location

Photo Description:

Standing on the east side of the house looking northwest: View of water supply well. Unique Well # 8HP085.

Photo #:	63
Date/Time of Photo:	3/26/2025 14:08
Photo By:	Brian Hanson
Photo Location:	Well Location

Photo Description:

Standing on west side of calf hutch area looking southwest: View of water supply well. Unique Well # YS599.

SUMMARY:

Areas of Concern

- Feed Storage Area does not currently have runoff controls installed and has multiple possible discharge locations. The farm should continue to monitor the FSA to look for areas of possible discharge. Where discharge is occurring , the farm should install interim best management practices to prevent a discharge to waters of the state until permanent controls are installed.
- The Calf Hutch Area does not currently have runoff controls installed and has multiple possible discharge locations. The farm should continue to monitor the calf hutch area to look for areas of possible discharge. Where discharge is occurring , the farm should install interim best management practices to prevent a discharge to waters of the state until permanent controls are installed.
- Waste Storage Facilities show signs of past overtopping. Continue to monitor manure levels in both pits to prevent future overtopping events.
- The concrete cattle walkway between the small freestall barn & the main freestall barn does not have engineered runoff controls. Manure laden runoff was observed leaving the concrete area and entering the stormwater culvert. The farm should continue to monitor the cattle walkway area to look for areas of possible discharge. Where discharge is occurring , the farm should install interim best management practices to prevent a discharge to waters of the state until permanent controls are installed.

Action Items

- Take action on areas of concern listed above to prevent discharges from existing facilities.
- As requested in December 13, 2024 Notice of Discharge Update Letter, submit final WPDES application no later than June 30, 2025. See further details on application materials on following page.

Materials that may be required as part of the Final Permit Application

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

• 3400-025 form (Livestock/Poultry Operation WPDES Permit Application)

• 3400-025A form (Animal Units Calculation Worksheet)

• 3400-025B form (Nutrient Management Plan Checklist)

• 3400-025C form (Reviewable Facilities of Systems Checklist)

• 3400-025G form (Evaluated Facilities of Systems Checklist)

• A soil survey map of the dairy's production area

• A labeled aerial map showing the existing and proposed features and structures of the dairy's production area

• Calculations documenting days liquid manure and process wastewater storage

• Supporting documentation for days storage calculations

• A complete 5-year Nutrient Management Plan (NMP). If necessary, include a description of permanent spray irrigation systems and any other land spreading or treatment systems (proposed or active)

• Environmental Analysis Questionnaire (Screening Page at a minimum)

• Engineering evaluations for existing reviewable facilities including WSF's, all permanent waste transfer systems, existing feed storage areas & runoff controls, existing feedlots and runoff controls. (With approval of Department , this requirement may be delayed until permit issuance and included as a schedule item in the permit.)

• Plans and specifications for any proposed facilities: