

Permit Fact Sheet

General Information

Permit Number	WI-0058947-06-0
Permittee Name and Address	Tinedale Farms LLP 2768 Poplar St, Wrightstown, WI 54180
Permitted Facility Name and Address	Tinedale Farms LLP 2768 Poplar St Wrightstown
Permit Term	April 01, 2026 to March 31, 2031
Receiving Water	groundwater in Apple and Ashwaubenon Creeks Watershed of Lower Fox River Basin in Brown County
Discharge Type	Existing source CAFO per NR 243.03(23) as the facility has been permitted since 1991.

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
Milking and Dry Cows	8715	8902	0	0	
Heifers (800 lbs. to 1200 lbs.)	440	400	0	0	
Total	9155	8902	0	0	

Facility Description

Tinedale Farms LLP is a Concentrated Animal Feeding Operation (CAFO) owned and operated by Scott Theunis and family. It currently has 9,155 animal units and based on current herd size, Tinedale Farms has approximately 328 days of liquid waste storage and 59 days of solid waste storage. Tinedale Farms generates 77,819,470 gallons of liquid manure and 2,400 tons of solid waste annually. Tinedale Farms has a total of 9,404.5 acres of available for land application of manure and process wastewater. Of this acreage, 8,978 are spreadable, 2,678 are owned, and 6,726.5 are rented or controlled through contracts.

Substantial Compliance Determination

Enforcement During Last Permit: None

After a desk top review of all compliance schedule items and a site visit on 06/11/2025, 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 1 - Sample Point 001 is for liquid waste storage facility 1 (WSF 1) located at the main farm. WSF 1 is an in-place earthen storage located west of the freestall barns, south of WSF 2. The facility has a maximum operating level of 3,922,323 gallons and was constructed in 1997. This storage accepts manure and process wastewater from WSF 2. WSF 1 is proposed to be abandoned during this permit term.	
002	WSF 2 - Sample Point 002 is for liquid waste storage facility 2 (WSF 2) located at the main farm. WSF 2 is an in-place earthen storage located west of the freestall barns, north of WSF 1. The facility has a maximum operating level of 9,922,323 gallons and was constructed in 1997. This storage accepts manure and process wastewater from the freestall barn to the north. WSF 2 is proposed to be abandoned during this permit term.	
005	WSF Solids - Sample Point 005 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.	
007	Feed Storage Area - Sample Point 007 is for visual monitoring and inspection of the feed storage pad located on the northeast side of the main farm as well as the feed storage bunkers located west of WSF 5 and the associated runoff control system. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	
008	WSF 6 - Sample Point 008 is for liquid waste storage facility 6 (WSF 6) located at the Klistor Site. WSF 6 is a clay-lined facility with concrete scour protection. This facility has a maximum operating level of 7,293,789 gallons and was constructed in 2015. This storage accepts manure and process wastewater via tankers from the main farm.	
010	WSF 5 - Sample Point 010 is for liquid waste storage facility 5 (WSF 5) located at the main farm. WSF 5 is a concrete lined storage located west of the feed storage pad, east of the feed storage bunkers. The facility has a maximum operating level of 2,021,622 gallons and was constructed in 2010. This storage accepts leachate and runoff from the leachate collection basin as well as the feed storage bunkers.	
011	Misc. Solids - Sample Point 011 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.	
012	Stormwater - Sample Point 012 is for visual monitoring and inspection of all production site storm water conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, 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.	
013	WSF 8 - Sample Point 013 is for liquid waste storage facility 8 (WSF 8) located at the main farm. WSF 8 is an earthen lined facility, located directly west of the digesters. The facility has a maximum operating level of 27,824,398 gallons and was constructed in 2024. This storage accepts manure and process wastewater from the manure processing building/digesters.	

Sample Point Designation For Animal Waste	
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
014	WSF 9 - Sample Point 014 is for liquid waste storage facility 9 (WSF 9) located at the main farm. WSF 9 is an earthen lined facility, located west of WSF 8. The facility has a maximum operating level of 29,336,413 gallons and was constructed in 2024. This storage accepts manure and process wastewater from the manure processing building/digesters.
015	Digester - Sample Point 015 addresses all digested liquids located within the digester cells. Digested liquids are transferred to WSF 8 or WSF 9 for long term storage. Sampling from within the digester cell(s) for nutrient content is only required if the liquids are to be manually pumped from the cell(s) and directly land applied.

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 328 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 9,155 animal units, it is estimated that approximately 77,819,470 gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 2,678 acres of cropland and rents about 6,726.5. Given the rotation commonly used by the permittee, 8,978 acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

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

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

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

Monitoring and Sampling Requirements

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

Sampling Points

The permit identifies the different sources of land applied materials (e.g., manure storage facilities, milking centers, egg-washing facilities) as "Sampling Points." For these Sampling Points, the permittee is required to sample and analyze the different sources for nutrients and other parameters which serve as the basis for determining rates of application for these materials. Other areas are also identified as Sampling Points as a means of identifying them as areas requiring action by

the permittee, such as an upgrade or evaluation of a certain system or structure (e.g., runoff control systems), even though sampling is not actually required.

1.1 Sample Point Number: 001- WSF 1; 002- WSF 2; 008- WSF 6; 010- WSF 5; 013- WSF 8; 014- WSF 9, and 015- Digested Liquids

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

1.1.1 Changes from Previous Permit

Sample points 003, 004, and 007 were removed as WSF 3, WSF 4, and WSF 7 were abandoned with Department approval. Sample point language was updated to more accurately describe the production site.

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: 005- WSF (solids); 011- Misc. Solid Manure

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

1.2.1 Changes from Previous Permit

Sample point 006 was removed as the Sand Lanes were removed with Department approval. Sample point language was updated to more accurately describe the production site.

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: 007- Feed Storage Areas and 012- Storm Water

1.3.1 Changes from Previous Permit

Sample point language was updated to more accurately describe the production site.

1.3.2 Explanation of Operation and Management Requirements

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

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Develop a written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request.	05/01/2026

Explanation of Schedules

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

2.2 Monitoring & Inspection Program

Required Action	Due Date
Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program within 30 days of the effective date of this permit.	05/01/2026

Explanation of Schedules

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

2.3 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.	

Explanation of Schedules

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

2.4 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.	03/31/2027
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.	
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Explanation of Schedules

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

2.5 Manure Storage Facility - Abandonment

Applicable to WSF 1 & WSF 2, sample points 001 and 002 respectively.

Required Action	Due Date
Abandonment Plan: Submit an abandonment plan for the manure waste storage facilities 1 & 2 to the Department for approval in accordance with USDA Natural Resource Conservation Services Technical Guide, Section IV, Standard 360 outlining the proposed method of abandonment.	12/31/2026
Complete Abandonment: Complete abandonment as approved by the Department.	12/31/2027

Explanation of Schedules

Abandonment of WSF 1 & WSF 2 are included as part of Tinedale Farm’s future plans for the production site.

2.6 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	10/01/2030

Explanation of Schedules

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

Attachments

Approval Letter(s)

- Nutrient Management Plan – 12/19/2025
- Days of Storage Review – 10/08/2025
- Inspection Report – 06/11/2025

Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Holly Stegemann

Agricultural Runoff Management Specialist

Date: 01/16/2026



December 19th, 2025

Brown County
Approval

Scott Theunis
Tinedale Farms, LLP
2768 Poplar St.
Wrightstown, WI 54180

SUBJECT: Conditional Approval of Tinedale Farms, LLP Nutrient Management Plan, WPDES
Permit No. 0058947-06-0

Dear Darin Strauss:

After completing a review of Tinedale Farms, LLP 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 Highland Crossing Dairy, LLC review the NMP with those individuals involved with manure applications to ensure all remain familiar with the approved manure spreading protocol, spreading maps, field and map verification, record keeping requirements, and all the conditions of this approval.

FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 9,155 animal units (6,225 milking & dry cows, 400 heifers). Currently there are no planned expansions in the next permit term.
2. Manure generation and spreading records indicate your herd will annually generate approximately 77,819,470 gallons of manure and process wastewater and 2,400 tons of solid manure in the first year of the permit term. The farm is later assuming generation volume for liquid manure of 80,819,470 gallons in 2027 and beyond to be conservative.
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 Tinedale Farms, LLP currently has 9,404.5 acres (2,678 owned and 6,726.5 controlled through contracts, rental agreements or leases, or under manure agreements) of which 8,978 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 Tinedale Farms, LLP 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 ID:	DNR #:
Al Tetzlaff	ST PAPER LLC	TETZLAFF-1	104380
Cloverleaf South	FOREMOST FARMS USA APPLETON	CP-1-11	102821
Glenrock	NLC ENERGY DENMARK LLC	LVK7-1	112609
J&J Tree Field	NEW LONDON WASTEWATER TREATMENT FACILITY	AG1-1	117299
Loren Buildings	NLC ENERGY DENMARK LLC	LVK20-1	112606
Loren Buildings South	NLC ENERGY DENMARK LLC	LVK29-1	112608
LVK Long Horns	FOREMOST FARMS USA APPLETON	RG1-1	99154
LVK Long Horns	FOREMOST FARMS USA APPLETON	RG1-3	99156
LVK Long Horns	FOREMOST FARMS USA APPLETON	RG1-2	99155
Ross A-B	ST PAPER LLC	ROSS-AB	104397
Ross C	ST PAPER LLC	ROSS-C	104386
Ross D	ST PAPER LLC	ROSS-D	104385
Ross E	ST PAPER LLC	ROSS-E	104384
Ross G-J	ST PAPER LLC	ROSS-GJ	104383
Ross L-O	ST PAPER LLC	ROSS-LO	104382
TT South	FOREMOST FARMS USA APPLETON	CP1-1	83077
TT South	FOREMOST FARMS USA APPLETON	CP1-14	107365
Verhoven 1	WRIGHTSTOWN WASTEWATER TREATMENT FACILITY	W-624	116665
Verhoven 2-5	WRIGHTSTOWN WASTEWATER TREATMENT FACILITY	W-627	116666

Prior to any manure applications on these fields Tinedale Farms, LLP 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 Tinedale Farms, LLP 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: Tinedale Farms, LLP 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:
 - Baum 24 (expired soil test)
 - Gwidt 1 (expired soil test)
 - Gwidt 3 (expired soil test)
 - Gwidt 4 (expired soil test)
 - Gwidt 5 (expired soil test)
 - Gwidt 6 (expired soil test)
 - Gwidt 8 (expired soil test)
 - Gwidt 9 (expired soil test)
 - Reitz North (expired soil test)
 - Reitz South (expired soil test)

If Tinedale Farms, LLP 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 NH₄-N, percent NO₃-N, phosphorus, potassium, and sulfur.
6. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium (NH₄⁺) is greater than 75% of the total N, TINEDALE FARMS, LLP 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. Tinedale Farms, LLP 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. Tinedale Farms, LLP 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 Reports' generated by Snap Plus.

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:

- Berghuis Big	- Berghuis North	- Beyer
- F Klister 4	- Sanderfoot	- TT South
11. 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.
12. Winter applications of liquid manure shall only occur under emergency situations, after notifying the Department and receiving verbal approval.
13. 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

14. 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 $\leq 40,000$ 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%.

- Beyer 1

- Beyer 2

- Neuman 1*

- Neuman 2*

- TT South 1

- TT South 2

*sites are within a closer proximity of a wetland, please note that these sites must maintain a distance of 300 feet or greater from any wetlands.

NR243.143/151.075 SILURIAN BEDROCK PERFORMANCE STANDARDS

15. Manure generated by Tinedale Farms, LLP that is mechanically applied to the following approved fields meet planning requirements under NR243.143/151.075, Silurian bedrock performance standards. The following fields are required to meet all requirements under NR243.143/151.075, Silurian bedrock performance standards immediately following this approval.

- Glenrock

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.

18. The farm is required to take a minimum number of manures samples to meet permit requirements as follows:

- Solid Manure: One solid sample per source on a quarterly basis when hauling occurs.
- Liquid Manure: Two liquid samples per source on a monthly basis when hauling occurs.

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

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

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

Sincerely,

Handwritten signature of Ashley Scheel in black ink.

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

CC:

Holly Stegemann, WDNR Agricultural Runoff Management Specialist (holly.stegemann@wisconsin.gov)

Joe Baeten, WDNR Agricultural Runoff Supervisor (joeseeph.baeten@wisconsin.gov)

Aaron O'Rourke, WDNR Nutrient Management Program Coordinator (aaron.orourke@wisconsin.gov)

Falon French, WDNR Intake Specialist (falon.french@wisconsin.gov)

Tabby Davis, WDNR CAFO Engineer (tabatha.davis@wisconsin.gov)

Nick Peltier, Brown County (nick.peltier@browncountywi.gov)

Greg Baneck, Outagamie County (greg.baneck@outagamie.org)

Brian Haase, Waupaca County (brian.haase@co.waupaca.wi.us)

Anthony Reali, Calumet County (anthony.reali@calumetcounty.org)

Ken Dolata, Oconto County (ken.dolata@ocontocountywi.gov)

Cheyenne Behnke, Manitowoc County (cheyenne.behnke@manitowoccountywi.gov)

Kyle Much, Much Crop Consulting Inc (much.kyle@gmail.com)

File



October 8, 2025

FILE REF: R-2025-0219
 WPDES Permit #: WI-0058947

Scott Theunis
 Tinedale Farms LLP
 2768 Poplar Street
 Wrightstown WI 54180

Subject: Days of Storage Review for Tinedale Farms LLP NW¼ of T22N, R19E, Section 35 in Wrightstown Township, Brown County – NO ADDITIONAL ACTION REQUIRED

Dear Scott Theunis:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has completed its review of the calculation of days of storage submitted under certification by Clark Fox, Outland Design on August 28, 2025 on behalf of Tinedale Farms LLP.

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 Tinedale Farms LLP has 328 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 9,155. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values for a collection period of 365 days. All runoff up to the 25-yr 24-hr storm is collected in permanent waste storage. Approximately 3 million gallons of flush water is required for operation of the flush system and is reduced from the MOL volume of the combined storages.

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	4,471,214				548,891	3,922,323
#2	4,471,214				548,891	3,922,323
#7	8,283,760				989,971	7,293,789
#8	31,274,179	197,469	751,313		2,500,999	27,824,398
#9	32,956,435	209,329	787,901		2,622,792	29,336,413
RCF1	604,776		39,307	384,219		181,250
RCF2	984,435		70,731	770,807		142,897
Flush	-3,000,000					-3,000,000
Total MOL Vol:						69,623,393
Days of Storage:						328

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	Annual Gallons
Manure and Bedding	62,935,971
Net Precipitation on Storage Surface(s)	10,646,953
Feed Storage Leachate	651,417
Feed Storage Runoff Collected	6,214,034
Reserve Flush Water	-3,000,000
TOTAL:	77,448,375

Should you have any questions, please contact Tabby Feller, 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



Ariana Somma
CAFO Engineer Intern
Watershed Management Program

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Matt Woodrow; DATCP
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Holly Stegemann; DNR-Northeast Region
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Joe B Baeten; DNR-Northeast Region
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Ashley Scheel; DNR, Central Office
(608) 261-6419; ashley.scheel@wisconsin.gov

Tabatha Davis; DNR, Central Office
Tabatha.davis@wisconsin.gov



June 17, 2025

Scott Theunis
Tinedale Farms
2768 Poplar Street
Wrightstown, WI 54115

WPDES Permit No. WI-0058947-05-1
Brown County

Subject: WPDES Reissuance Walkover Inspection Report

Dear Mr. Theunis:

On June 11, 2025, the Department of Natural Resources (department) conducted a permit reissuance walkover inspection of Tinedale Farms. Report and photo log are included in the enclosed report.

Page 6 of the enclosed report includes a list of "Action Items". Please review this section and submit items accordingly by the due dates listed.

As discussed during our meeting, a permit reissuance application will be submitted to the Department mid-July to combine the current in-house modification application with the reissuance application for a revoke and reissue of Tinedale Farms WPDES permit that is set to expire February 28, 2026.

If you have any questions regarding this letter or your WPDES permit requirements, please feel free to contact me at (920)360-0794 or at holly.stegemann@wisconsin.gov.

Sincerely,

Holly Stegemann
Agricultural Runoff Management Specialist

Enclosure: Tinedale Farms 06/11/2025 Inspection Report

Electronic CC:
Nick Peltier - Brown LCD
Kyle Much – Much Crop Consulting
Joe Baeten, Falon French - DNR

CAFO Compliance Report (06/17/2025)



Inspection Date: 06/11/2025
Inspection Type: Permit Reissuance
Operation Name: Tinedale Farms
WPDES Permit No. WI-0058947-05-1

Operation Address: Main Farm: 2768 Poplar Street, Wrightstown, WI 54180
Klister Basin: Adjacent to 959 Mallard Road, Wrightstown, WI 54115

On-Site Representative(s): Scott Theunis, Owner/Operator

DNR Staff / Report Writer: Holly Stegemann – Agricultural Runoff Management Specialist

On June 11, 2025, Stegemann met with Scott Theunis and Kyle Much (Much Crop Consulting) to conduct a WPDES permit reissuance inspection of Tinedale Farms. All facilities currently covered under Tinedale Farms WPDES permit were inspected. No liquid precipitation had fallen 24 prior to the inspection. Follow up Action Items can be found on page 6. Overall, the permittee is in substantial compliance with their permit.

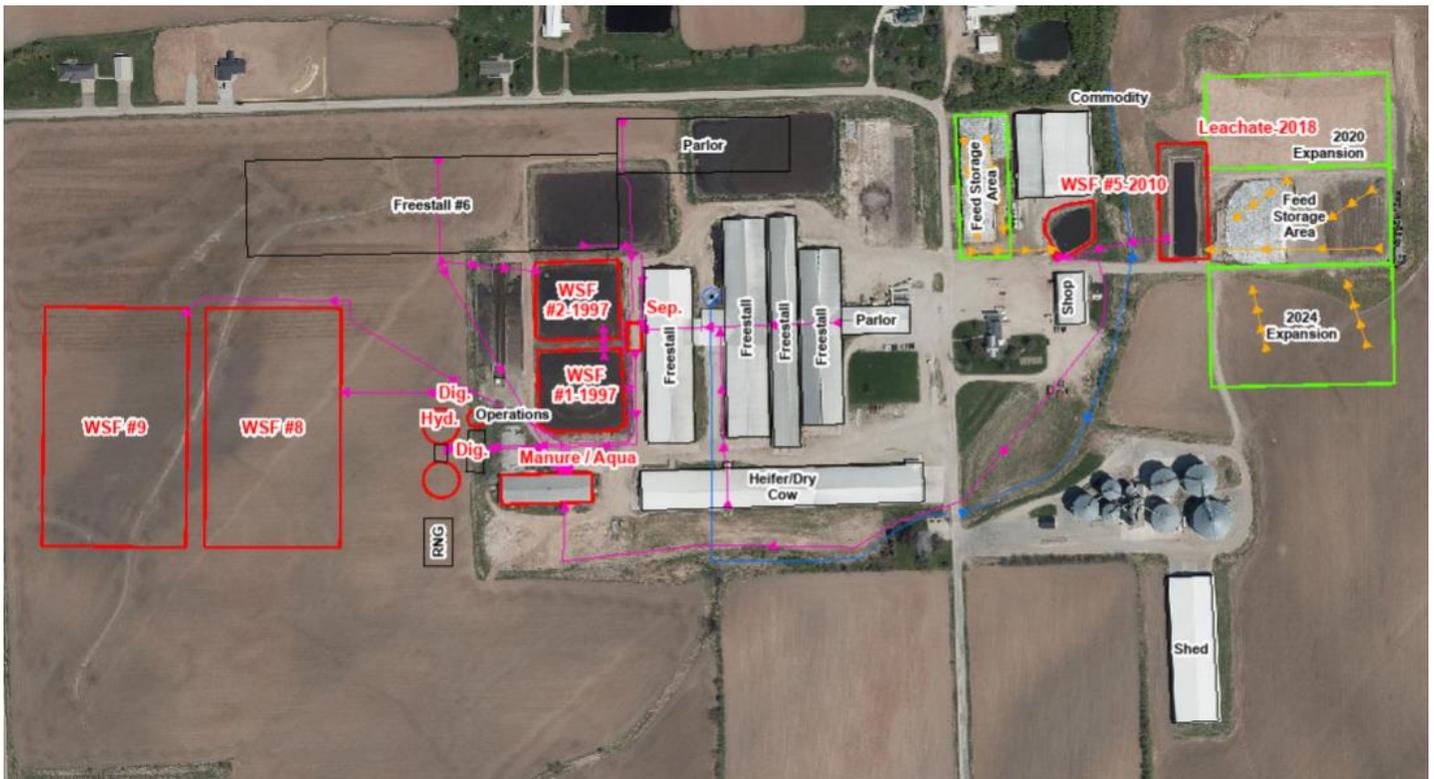


Figure 1. Aerial overview of Tinedale Farms. Manure transfer system indicated with pink arrow. Contaminated runoff indicated with orange arrows. Stormwater flow indicated with blue arrows.

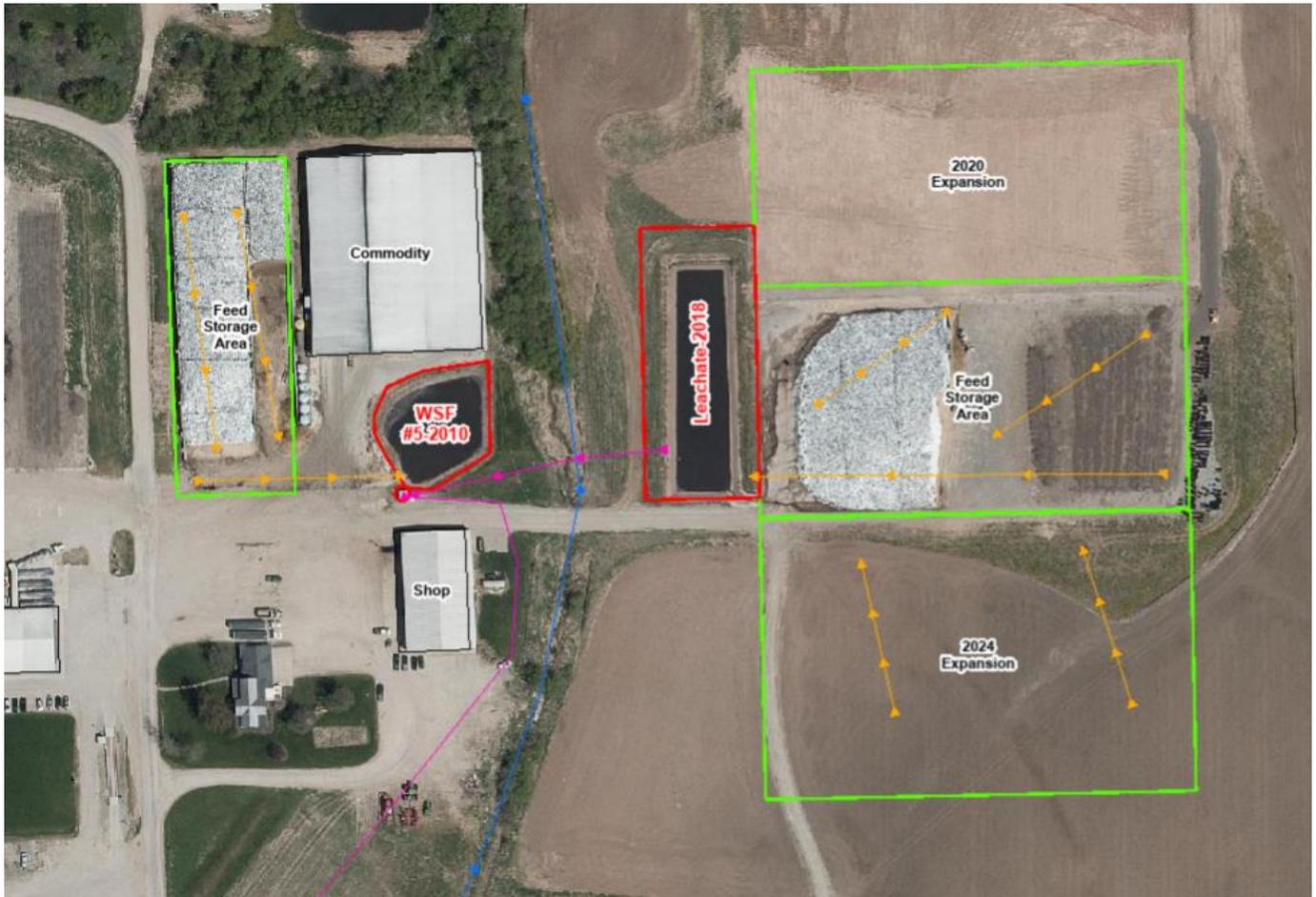


Figure 2. Aerial overview of Tinedale Farms, east of Poplar Street. Manure transfer system indicated with pink arrow. Contaminated runoff indicated with orange arrows. Stormwater flow indicated with blue arrows.

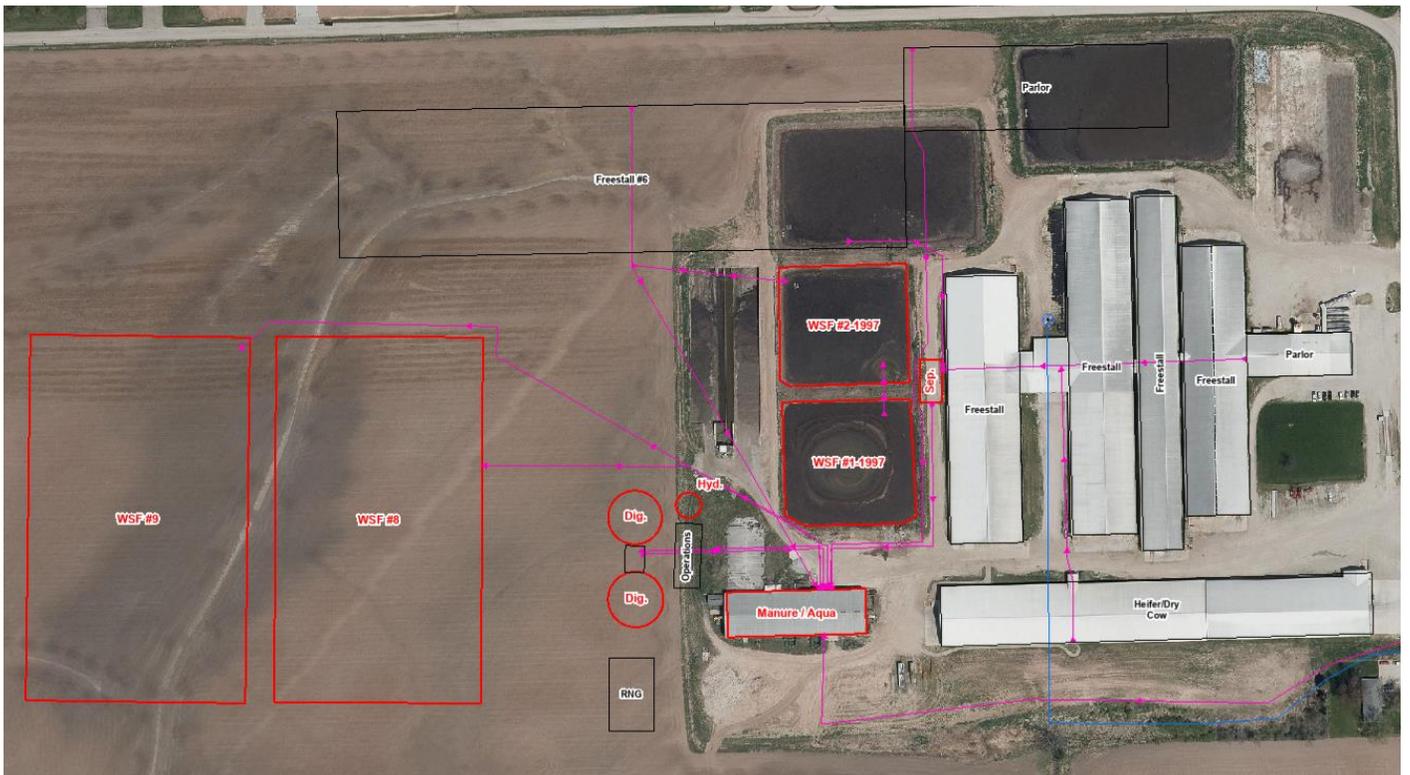


Figure 3. Aerial overview of Tinedale Farms, west of Poplar Street. Manure transfer system indicated with pink arrow. Stormwater flow indicated with blue arrows.



Figure 4. Aerial overview of satellite waste storage facility, Klister pit.

SITE OBSERVATIONS

Feedlot Runoff

Tinedale Farms does not utilize any outdoor feed lots. All animals are housed and fed under roof.

Calf Hutch Areas

Tinedale Farms does not utilize any calf hutch areas. All animals are housed and fed under roof.

Waste Storage Facilities

Tinedale Farms utilizes six liquid waste storage facilities on the main site and one offsite waste storage facility.

WSF 1 is a clay lined storage that was constructed in 1997. This storage accepts liquid manure from the freestall barns. It has a maximum operating level of 4,004,480 gallons. At the time of inspection, permanent markers and fencing were in place.

WSF2 is a clay lined storage that was constructed in 1997. It has a maximum operating level of 3,925,632 gallons. At the time of inspection, permanent markers and fencing were in place.

At the time of inspection, it was observed that a part of the berm between WSF 1 and WSF 2 was removed. Theunis explained that the overflow pipe froze over winter, and so they removed part of the berm where the overflow pipe was located. During the next permit term, they plan to abandon the pits in order to build new barns. A permit schedule will be included in the next permit for the abandonment of WSF 1 and WSF 2.

WSF3 has been abandoned (R-2023-0207).

WSF 4 has been abandoned (R-2023-0207).

WSF 5 is a concrete lined storage that was constructed in 2010. This storage accepts leachate and process wastewater from the feed storage area to the west, as well as leachate via gravity overflow from the Leachate Basin to the east. It has a maximum operating level of 2,021,622 gallons. At the time of inspection, permanent markers and fencing were in place.

WSF 6, also called the Klister Basin, is a clay lined storage that was constructed in 2015. This is an offsite storage that is located NW¼, SW¼, Section 23, T21N, R19E. It has a maximum operating level of 6,459,970 gallons. At the time of inspection, permanent markers and safety fencing were present. Observations of erosion on the sides of the concrete scour protection as well as woody vegetation growing from the berm were made.

WSF 7 has been abandoned (R-2023-0083).

The Leachate Basin is a concrete lined leachate collection basin located west of the new feed storage area. This leachate basin gravity flows west to WSF 5 and does not have a maximum operating level nor is it included in days of storage calculations. At the time of inspection, safety fencing was in place.

WSF 8 is an earthen lined facility located west of the digesters. It was constructed in 2024 and has a maximum operating level of 25.7 million gallons. This storage accepts manure and process wastewater from the manure processing building/digesters. At the time of inspection, permanent markers were present. Safety fencing was in the process of being installed.

WSF 9 is an earthen lined facility located west of WSF 8. WSF 9 was constructed in 2024 and has a maximum operating level of 27.1 million gallons. This storage accepts manure and process wastewater from the manure processing building/digesters. At the time of inspection, permanent markers were present. Safety fencing was in the process of being installed.

Solid and liquid waste storage facilities are managed to not have current or past indicators of discharges. Solid and liquid waste storage structures are well-maintained, in good repair, and in compliance with permit requirements.

Sand Separation Lanes

The sand separation has been abandoned (R-2023-0207).

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

Waste from the parlor mixed with the manure from the freestall barns and is stored in onsite waste storage facilities. Process wastewater sources are managed to not have current or past indicators of discharges.

Feed Storage Area Runoff

There are two feed storage areas at the main site, on the east side of Poplar Street. All feed is kept under plastic on the concrete feed pad or under plastic in the concrete bunker.

The bunkers are pitched to convey runoff across the concrete to the south, then east into WSF 5. At the time of inspection, part of the middle bunker wall was missing. Theunis explained part of the wall fell down over winter and they plan to remove the rest of the center bunker wall before more feed is placed there this fall.

The expansion of the feed storage pad is completed (R-2023-0207). The concrete pad is pitched to convey all leachate and stormwater towards the center of the pad and then to the west to the Leachate Basin, which gravity flows to WSF 5.

On the northwest corner of the feed storage pad, a pile of manure by-product from the digester/AQUA system was observed. Discussions on how to dispose of the material were had, including options for sampling with either direct land application or mixing into manure storage, or potential for landfill disposal. At the time of inspection, material appeared to have been windblown and some was noted off the edge of the pad.

Feed storage areas and associated process wastewater are managed to not have current or past indicators of discharges. Feed storage areas and runoff control systems are well-maintained and in good repair.

Animal Mortality Disposal

Mortalities are picked up as needed by OJ Krull. Animal mortalities are managed to not have current or past indicators of discharges.

Ancillary Service Areas

Tinedale Farms utilizes a few stormwater surface inlets along some of the barns on site to help with clean water infiltration. No barn gutters were observed at the time of inspection. Preventative maintenance actions and visual inspections are occurring to minimize pollutant discharges from ancillary service and storage areas.

RECORDS REVIEW

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

The permittee provided complete production site inspection records that are required to be retained.

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

The permittee provided land application records to demonstrate compliance with nutrient management plan requirements.

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

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

SUMMARY

Substantial Compliance

The permittee is in substantial compliance with the permit.

Areas of Concern

- Erosion was observed on the sides of concrete scour protection of WSF 6, the Klister Pit.
- Woody vegetation was observed on the west side of WSF 6, the Klister Pit.

Permit Violations

None

Action Items

- Submit photo documentation to the department, no later than 12/01/2025, showing appropriate maintenance has occurred for WSF 6.
- Submit Post Construction documentation for the Holland Pit abandonment (R-2023-0083)
- Submit Post Construction documentation for the Farm Expansion project (R-2023-0207 & R-2024-0150)

Items for Next Permit Term

- Abandonment of WSF 1 and WSF 2.

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)
- An update to the Water Quality Trading Plan for the duration of the next permit term (2026-2030)
- 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 landspreading or treatment systems (proposed or active)
- Plans and specifications for any proposed facilities

Photo #:	1719
Date/Time of Photo:	06/11/2025 14:38
Photo By:	Stegemann
Photo Location:	WSF 1



Photo Description:
View of WSF 1, looking northwest.

Photo #:	1717
Date/Time of Photo:	06/11/2025 14:38
Photo By:	Stegemann
Photo Location:	WSF 1



Photo Description:
View of permanent markers in WSF 1, looking north.

Photo #:	1711
Date/Time of Photo:	06/11/2025 14:36
Photo By:	Stegemann
Photo Location:	WSF 2



Photo Description:
View of WSF 2, looking northwest.

Photo #:	1713
Date/Time of Photo:	06/11/2025 14:36
Photo By:	Stegemann
Photo Location:	WSF 2



Photo Description:
View of WSF 2, looking southwest.

Photo #:	0655
Date/Time of Photo:	06/11/2025 14:20
Photo By:	Stegemann
Photo Location:	WSF 5

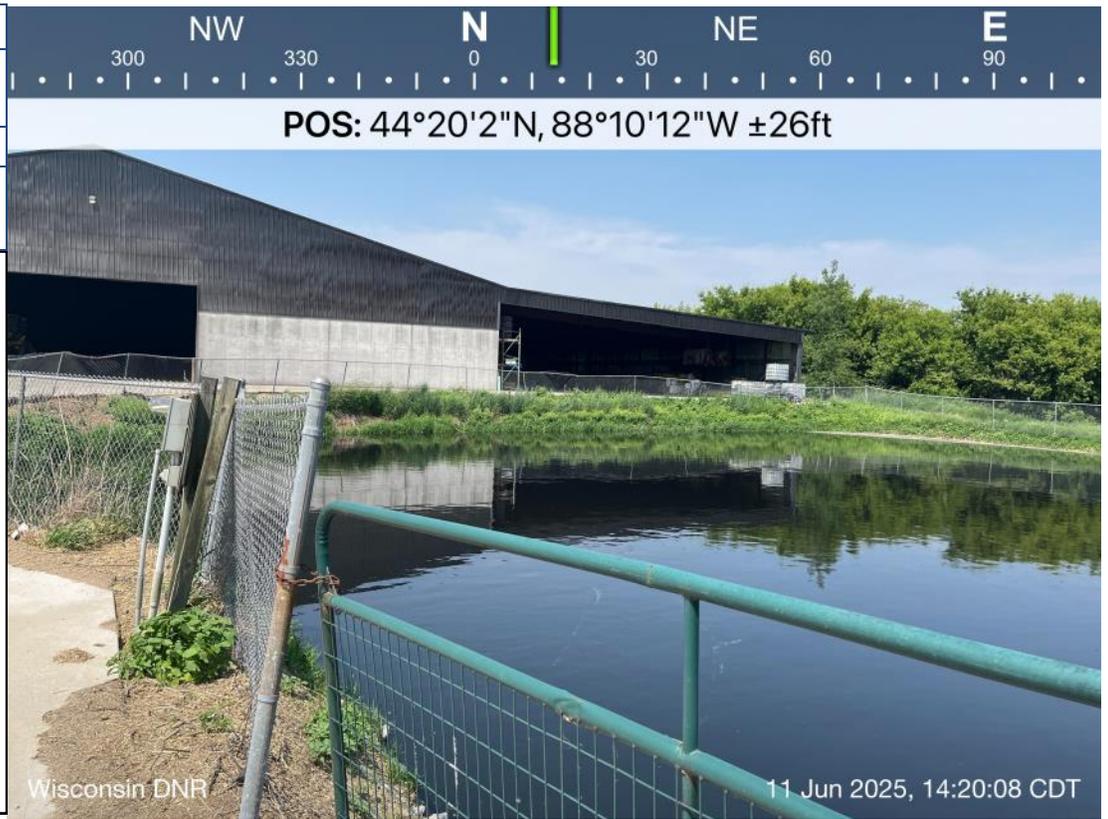


Photo Description:
View of WSF 5, looking north,

Photo #:	1651
Date/Time of Photo:	06/11/2025 14:20
Photo By:	Stegemann
Photo Location:	WSF 5



Photo Description:
View of permanent markers in WSF 5, looking southeast.

Photo #:	1739
Date/Time of Photo:	06/11/2025 15:19
Photo By:	Stegemann
Photo Location:	WSF 6



Photo Description:
View of WSF 6, looking northeast.

Photo #:	1749
Date/Time of Photo:	06/11/2025 15:20
Photo By:	Stegemann
Photo Location:	WSF 6



Photo Description:
View of eroding slopes along concrete scouring on eastern berm of WSF 6, looking southeast.

Photo #:	1755
Date/Time of Photo:	06/11/2025 15:21
Photo By:	Stegemann
Photo Location:	WSF 6



Photo Description:
View of WSF 6, looking southeast.

Photo #:	1757
Date/Time of Photo:	06/11/2025 15:22
Photo By:	Stegemann
Photo Location:	WSF 6



Photo Description:
View of woody vegetation along west berm of WSF 6, looking northeast.

Photo #:	1691
Date/Time of Photo:	06/11/2025 14:27
Photo By:	Stegemann
Photo Location:	WSF 8



Photo Description:
View of WSF 8, looking southwest.

Photo #:	1695
Date/Time of Photo:	06/11/2025 14:29
Photo By:	Stegemann
Photo Location:	WSF 8



Photo Description:
View of WSF 8, looking northwest.

Photo #:	1689
Date/Time of Photo:	06/11/2025 14:27
Photo By:	Stegemann
Photo Location:	WSF 8
Photo Description:	
View of permanent markers in WSF 8, looking west.	



Photo #:	1703
Date/Time of Photo:	06/11/2025 14:32
Photo By:	Stegemann
Photo Location:	WSF 9
Photo Description:	
View of permanent markers in WSF 9, looking west.	



Photo #:	1699
Date/Time of Photo:	06/11/2025 14:30
Photo By:	Stegemann
Photo Location:	WSF 9



Photo Description:
View of WSF 9, looking northwest.

Photo #:	1661
Date/Time of Photo:	06/11/2025 14:20
Photo By:	Stegemann
Photo Location:	FSA Bunker

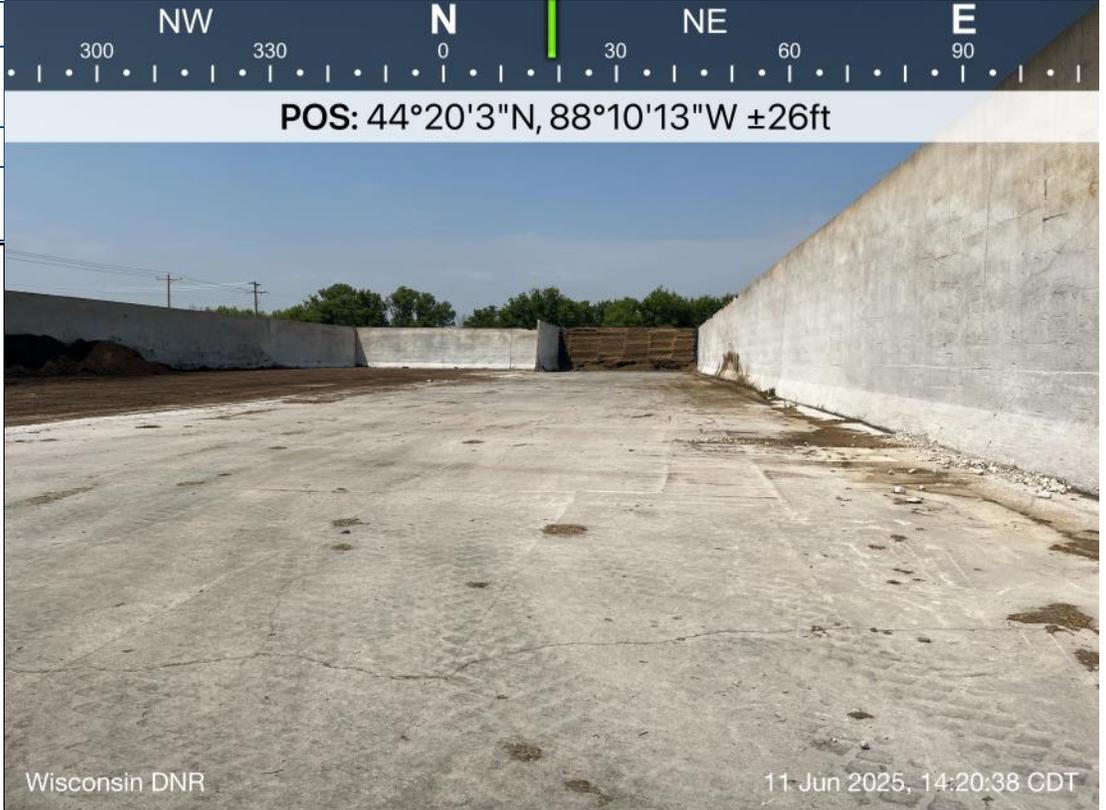


Photo Description:
View of feed storage area bunker, looking north.

Photo #:	1665
Date/Time of Photo:	06/11/2025 14:21
Photo By:	Stegemann
Photo Location:	FSA Bunker



Photo Description:

View of feed storage bunker, looking west. Arrow indicates approximate runoff flow path to WSF 5.

Photo #:	1627
Date/Time of Photo:	06/11/2025 14:13
Photo By:	Stegemann
Photo Location:	FSA Pad



Photo Description:

View of feed storage pad, looking east.

Photo #:	1629
Date/Time of Photo:	06/11/2025 14:14
Photo By:	Stegemann
Photo Location:	FSA Pad



Photo Description:
View of feed storage pad, looking northwest.

Wisconsin DNR 11 Jun 2025, 14:14:52 CDT

Photo #:	1631
Date/Time of Photo:	06/11/2025 14:14
Photo By:	Stegemann
Photo Location:	FSA Pad



Photo Description:
View of feed storage pad, looking southwest.

Wisconsin DNR 11 Jun 2025, 14:14:55 CDT

Photo #:	1639
Date/Time of Photo:	06/11/2025 14:16
Photo By:	Stegemann
Photo Location:	FSA Pad



Photo Description:
View of digester/AQUA by-product stacked on northwest corner of feed pad, looking northwest.

Photo #:	1641
Date/Time of Photo:	06/11/2025 14:18
Photo By:	Stegemann
Photo Location:	FSA Pad



Photo Description:
View of solids stacked on north side of feed storage pad, looking northeast.

Photo #:	6145
Date/Time of Photo:	06/11/2025 14:18
Photo By:	Stegemann
Photo Location:	FSA Pad



Photo Description:
View of feed storage pad, looking northwest. Arrows indicate approximate runoff flow paths.

Photo #:	1647
Date/Time of Photo:	06/11/2025 14:19
Photo By:	Stegemann
Photo Location:	Leachate Basin



Photo Description:
View of Leachate Basin, looking north. Arrow indicate where leachate enters the collection basin.

Photo #:	1649
Date/Time of Photo:	06/11/2025 14:19
Photo By:	Stegemann
Photo Location:	Leachate Basin



Photo Description:
View of the Leachate Basin, looking north.

Photo #:	1671
Date/Time of Photo:	06/11/2025 14:22
Photo By:	Stegemann
Photo Location:	New Parlor



Photo Description:
View of the new parlor, looking northwest.

Photo #:	1675
Date/Time of Photo:	06/11/2025 14:23
Photo By:	Stegemann
Photo Location:	New Barn



Photo Description:

View of new construction, looking northwest.

Photo #:	1683
Date/Time of Photo:	06/11/2025 14:25
Photo By:	Stegemann
Photo Location:	New Barn Waste Transfer

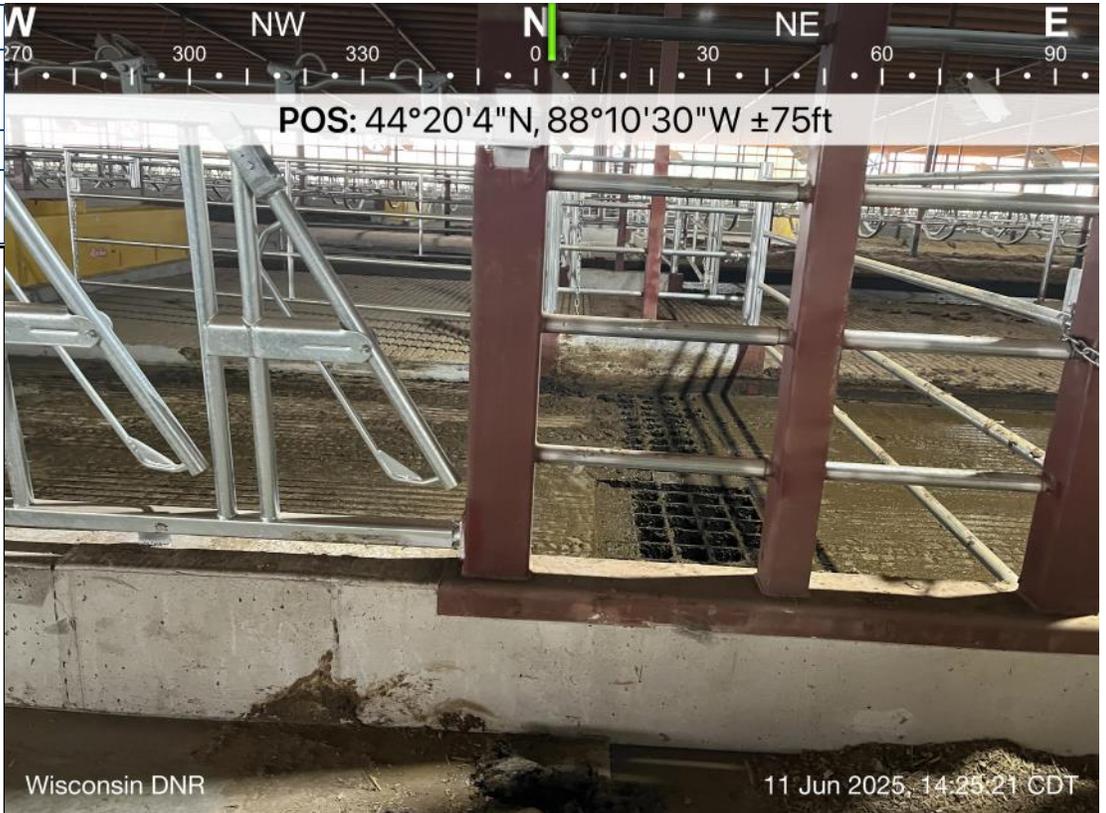


Photo Description:

View of waste transfer in new barn, looking north.

Photo #:	1715
Date/Time of Photo:	06/11/2025 14:37
Photo By:	Stegemann
Photo Location:	Manure Transfer
Photo Description:	
View of manure processing equipment.	



Photo #:	1723
Date/Time of Photo:	06/11/2025 14:43
Photo By:	Stegemann
Photo Location:	Manure Processing
Photo Description:	
View of manure solids in manure processing building.	

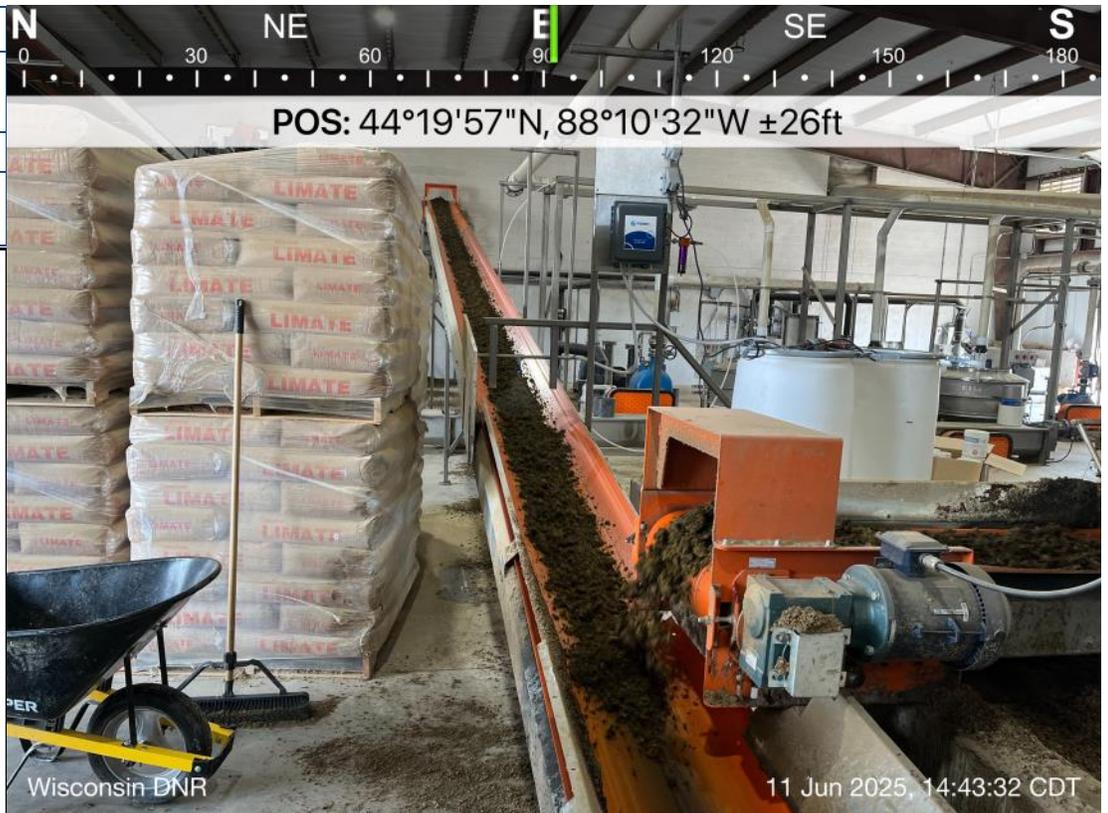


Photo #:	1727
Date/Time of Photo:	06/11/2025 14:43
Photo By:	Stegemann
Photo Location:	Manure Processing



Photo #:	1735
Date/Time of Photo:	06/11/2025 14:48
Photo By:	Stegemann
Photo Location:	Production Site

