

Permit Fact Sheet

General Information

Permit Number	WI-0062693-05-0
Permittee Name and Address	Shiloh Dairy LLC N8681 Bastian Rd, Brillion, WI 54110
Permitted Facility Name and Address	Shiloh Dairy LLC N8681 Bastian Rd Brillion
Permit Term	October 01, 2026 to September 30, 2031
Discharge Location	North Branch of the Manitowoc River Watershed, groundwaters of the state
Discharge Type	Existing source CAFO per NR 243.03(23)

Animal Units					
Animal Type	Current AU		Proposed AU (Note: If all zeroes, expansions are not expected during permit term)		
	Mixed	Individual	Mixed	Individual	Date of Proposed Expansion
Dairy Calves (under 400 lbs.)	157	0	0	0	
Milking and Dry Cows	4413	4507	0	0	
Heifers (400 lbs. to 800 lbs.)	392	653	0	0	
Heifers (800 lbs. to 1200 lbs.)	1010	918	0	0	
Total	5972	4507	0	0	

Facility Description

Shiloh Dairy LLC is a Concentrated Animal Feeding Operation (CAFO) owned and operated by Gordon Speirs and Travis Speirs. It currently has 5,972 animal units and based on current herd size, Shiloh Dairy has approximately 233 days of liquid waste storage and 59 days of solid waste storage. Shiloh Dairy generates 63,117,228 gallons of liquid manure and 2,000 tons of solid waste annually and currently has 6,744 acres (361 owned and 6,383 controlled through contracts, rental agreements or leases, or under manure agreements) of which 6,591 are spreadable acres.

Substantial Compliance Determination

Enforcement During Last Permit: None

After a desk top review of all compliance schedule items, and a site visit on 09/15/2025, 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 site. WSF 1 is an earthen lined facility that was constructed in 2006 and located east of WSF 2. The facility has a maximum operating level of 2,572,659 gallons and accepts process wastewater from the north feed storage area.	
002	WSF Solids - Sample Point 002 is for manure solids that are land applied from waste storage facilities 1-6. These facilities are described in sample points 001, 003, 004, 013, and 014 respectively. Representative samples shall be taken from each waste storage facility when land application occurs.	
003	WSF 2 – Sample Point 003 is for liquid waste storage facility 2 (WSF 2) located at the main site. WSF 2 is an earthen lined facility that was constructed in 2006 and located west of WSF 1. The facility has a maximum operating level of 7,803,756 gallons and accepts manure and process wastewater from WSF 1 as well as digested manure from WSF 3. WSF 2 was last evaluated in 2012 and met permit requirements.	
004	WSF 3 – Sample Point 004 is for liquid waste storage facility 3 (WSF 3) located at the main site. WSF 3 is an earthen lined facility that was constructed in 2003 and located north of WSF 2. The facility has a maximum operating level of 11,775,823 gallons and accepts manure and process wastewater from the onsite digester as well as the adjacent barns. WSF 3 was last evaluated in 2012 and met permit requirements.	
005	Miscellaneous Solid Manure - Sample Point 005 is for any miscellaneous solid manure directly land applied and not stored in a waste storage facility. This includes calf hutch manure, maternity bed pack, heifer bedpack, solids from the manure processing building, waste sand, and any solids removed from the digester. Representative samples shall be taken for each manure source type.	
007	Headland Stacking - Sample point 007 is for solid manure land applied from department approved headland stacking sites. Representative samples must be taken prior to land application. Stacks are defined as part of the production area and therefore subject to the production area discharge limitations of this permit. Weekly inspections of stack runoff controls are required and shall be recorded according to the monitoring and inspection program.	
008	Concrete Outdoor Lots - Sample Point 008 is for visual monitoring and inspection of the concrete feedlots located north of the Leachate Basin. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	
010	Feed Storage Area - Sample point 010 is for visual monitoring and inspection of the feed storage areas and associated runoff control systems at the main dairy. Leachate and runoff from the north feed storage area is collected and pump to WSF 1. Leachate and runoff from the south feed storage area is collected and stored in the Leachate Basin. Weekly inspections are required and shall be recorded according to monitoring program.	
013	WSF 4 - Sample Point 013 is for liquid waste storage facility 4 (also called the Loadout Pit) that is located on Harvestore Road. The Loadout pit is an earthen lined facility located just southwest of the main farm. The facility has a maximum operating level of 799,384 gallons and was constructed in 2011. This storage	

Sample Point Designation For Animal Waste		
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)	
	accepts manure and process wastewater transferred from the other WSFs, utilized as a central location for filling tankers or hosing manure for land application.	
014	WSF 5 - Sample Point 014 is for liquid waste storage facility 5 (also called the Remote Pit) located on Church Road. The Remote Pit is an earthen lined storage that was constructed in 2017. This facility has a maximum operating level of 9,818,444 gallons and accepts manure and process wastewater from the other WSFs.	
015	Calf Hutch Area - Sample point 015 is for visual monitoring and inspection of the calf hutch area. Hutches are bedded in straw on a gravel base, but do not have engineered runoff controls. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	
016	Stormwater - Sample point 016 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.	
017	Digester - Sample Point 017 addresses all digested liquids located within the 2 digester cells. Manure is piped from a manure processing building to the digesters and then returned to the manure processing buildings (for solids removal) after the digestion is completed. Liquids are then transferred to WSF 2 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.	
018	Separated Solids - Sample Point 018 is for visual monitoring and inspection of the separated manure fiber storage. 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 the monitoring program.	
019	WSF 6 - Sample point 019 is for liquid waste storage facility 6 (also called the Leachate Basin) located on the main site. The Leachate Basin is a concrete lined storage that is located on the north side of the south feed storage area. The facility has a maximum operating level of 1,034,652 gallons and was constructed in 2023. This storage accepts leachate and runoff from the south feed storage area.	

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 233 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 5,972 animal units (3,152 milking & dry cows, 1,571 heifers, and 786 calves), it is estimated that approximately 63,117,228 gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 361 acres of cropland and rents about 6,383 acres. Given the rotation commonly used by the permittee, 6,591 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; 003- WSF 2; 004- WSF 3; 013- WSF 4; 014- WSF 5; 017- Digester, and 019- WSF 6

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

1.1.1 Changes from Previous Permit

Sample point 004 was added to account for the separation of WSF 2/3 into separate waste storage facilities. Sample point 019 was added for WSF 6. 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: 002- WSF Solids; 005- Miscellaneous Solid Manure; 007- Headland Stacking

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 019 was added for WSF 6. 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: 008- Concrete Outdoor Lots; 010- Feed Storage Area; 015- Calf Hutch Area; 016- Stormwater, and 018- Separated Manure Solids

1.3.1 Changes from Previous Permit

Sample point 009 was removed as the outdoor lots have been abandoned. Sample point 019 was added for WSF 6. 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
Emergency Response Plan: Update the written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request.	11/01/2026

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
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.	11/01/2026

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.	

Explanation of Schedules

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

2.5 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	04/01/2031

Explanation of Schedules

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

Attachments

Plan Approval Letter(s)

- Nutrient Management Plan Conditional Approval 05/06/2026
- Days of Storage No Further Actions 04/30/2026
- Inspection Report 09/15/2025

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: 08/05/2026



July 15, 2021

Calumet County
Approval

Gordon Speirs
Shiloh Dairy LLC
6592 Ridge Royale Dr
Greenleaf, WI 54126

SUBJECT: Conditional Approval of Shiloh Dairy LLC Nutrient Management Plan, WPDES Permit
No. 0062693-04

Dear Mr. Speirs:

After completing a review of Shiloh Dairy LLC's 2020-2025 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 Shiloh Dairy LLC review the NMP with those individuals involved with manure applications to ensure all remain familiar with the approved manure spreading protocol, spreading maps, field and map verification, record keeping requirements, and all the conditions of this approval. Specifically, some fields in Shiloh Dairy LLC may have:

- Soils that may have bedrock or groundwater within 24 inches of surface,
- Multiple setback areas due to streams, conduits to streams, grassed waterways, wetlands or wells, and
- Evidence of possible soil erosion/flow channels. Note: road ditches or other man made channels may be considered flow channels or conduits to navigable water and may be subject to a SWQMA and setback.

Reviewing the NMP and checking fields for these features and soil conditions prior to manure applications will help Shiloh Dairy LLC maintain compliance with their WPDES permit and Ch. NR 243 requirements.

FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 5,011 animal units (2,629 milking & dry cows, 1,400 heifers, and 700 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 50,000,000 gallons of manure and process wastewater and 2,700 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 Shiloh Dairy LLC currently has 5,729 acres (361 owned and 5,368 controlled through contracts, rental agreements or leases, or under manure agreements) of which 5,600 are spreadable acres.
6. That some fields included in the NMP are directly adjacent to or have high potential to deliver nutrients and sediment to Plum Creek (Sediment/TSS) and East River (Total Phosphorus).
7. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters.

8. That Shiloh Dairy LLC currently has at least 233 days of storage for liquid manure, process wastewater and rainfall and at least 59 days of storage for solid manure.

	<i>Total Volume</i>	<i>Maximum Operating Level (MOL) Volume</i>
WSF1	3,119,458	2,076,121
WSF2	9,201,596	7,414,882
WSF3	14,180,284	11,150,533
WSF4	1,105,973	877,995
WSF5	12,630,809	10,179,408

9. That 26 fields are tiled. (Fields: BB10, JD Home N, JD Mrs. J, L S Center Rd., L S Hackers, L S Harry L North, L S Harry L South, LK 8, LK 59, RB Gordie 1, RB Gordie 2, RB Gordie 3-4, RB Gordie 5, RB Gordie 5B, SDL DS1, SDL DS2, SDL H1E, SDL H1W, SDL H2, SDL Home, SDL K5, SDL M3, SDL Rusch, TCF Kempen 40, and TCF Kempen Big)
10. 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.
11. 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 2020-2025 Shiloh Dairy LLC Nutrient Management Plan subject to the following conditions and the applicable requirements of Ch. NR 243, Wis. Adm. Code:

FIELD AND MANURE MANAGEMENT

- 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.
- The following fields have also been approved to receive industrial, municipal, or septage waste:

Field Name	Other Permittee Name	Other Permittee Field Name	DNR #
LK 55	Reedsville Wastewater Treatment Facility	RDH 1	21342
SDL SB 20-21	Essity Professional Hygiene North America LLC	SB 2	37389
SDL SB 5-6	Essity Professional Hygiene North America LLC	SB 1	37389

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

- The following fields are prohibited from receiving applications of manure or process wastewater:
 - RB Gordie 1-5 (Soil Sample out of Date)
 - SDL SB 26 (Soil Sample Required)
 - TCF NG (Additional Soil Samples Required)
 - SL DS1 (Soil Sample out of Date)
 - TCF Ledge North (Soil Sample Required)
 - SDL WM6 (Soil Test P >200ppm)
 - SL SB 16-19 (Soil Sample Required)
 - TCF Ledge South (Soil Sample Required)
 - SDL WM7 (Soil Test P >200ppm)

If Shiloh Dairy LLC wishes to use these fields for applications of manure or process wastewater all necessary information shall be submitted to the Department prior to application to demonstrate compliance with NR 243 and other applicable codes. Written Department approval amending this condition approval must be received prior to application.

4. If existing fields yield a soil test results greater than 200 ppm P, those fields would be prohibited from receiving manure or process wastewater applications, unless you obtain Department approval in accordance with NR 243.14(5)(b)2., Wis. Adm. Code.
5. All liquid manure samples collected may be analyzed, at a minimum, for percent dry matter, total nitrogen, percent $\text{NH}_4\text{-N}$, percent $\text{NO}_3\text{-N}$, phosphorus, potassium, and sulfur.
6. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium (NH_4^+) is greater than 75% of the total N, Farm Name 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. Shiloh Dairy LLC shall record daily manure applications by using form 3200-123A.
8. Shiloh Dairy LLC shall annually submit a spreading report that summarizes the land application activities listed under NR 243.19(3)(c)5., Wis. Adm. Code by using form 3200-123.

WINTER SPREADING

9. Liquid manure applications during winter conditions, as defined by NR 243.14(7), Wis. Adm. Code, are prohibited with the exception of emergency applications.
10. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
 - TCF Bastian
 - TCF Greve
 - TCF S Pat
 - SDL B7
 - SDL DS2
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. No headland stacking sites are approved. Headland stacking sites submitted did not meet criteria required for NRCS 313 (12/05) for manure with a solids content of 16-32%. Surrounding soils had a HSG of D and a perched saturation condition greater than the required separation distance to subsurface saturation.

NR243.143/151.075 SILURIAN BEDROCK PERFORMANCE STANDARDS

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

- LK ED 1
- TCF Campground
- TCF N Prop
- LK ED4
- TCF Ledge North
- TCF B-E
- TCF Ledge South

MANURE & PROCESS WASTEWATER IRRIGATION

16. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

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

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

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

If you have any questions regarding this approval I can be reached at 608-444-2869 or Anthony.Salituro@Wisconsin.gov.

Sincerely,



Tony Salituro
WDNR CAFO Intake Specialist
Wisconsin Department of Natural Resources

cc: Holly Stegemann, WDNR Agricultural Runoff Specialist (Holly.Stegemann@Wisconsin.gov)
Joe Baeten, WDNR Watershed Field Supervisor (Joseph.Baeten@Wisconsin.gov)
Chris Clayton, WDNR Ag Runoff Management Section Chief (Christopherr.Clayton@Wisconsin.gov)
Ashley Scheel, WDNR CAFO NMP Reviewer (Ashley.Scheel@Wisconsin.gov)
Aaron O'Rourke, WDNR CAFO NMP Coordinator (Aaron.ORourke@Wisconsin.gov)
Mike Mushinski, Brown County LCD (Michael.mushinski@browncountywi.gov)
Tony Reali, Calumet County LCD (reali.anthony@co.calumet.wi.us)
Jerry Halverson, Manitowoc County LCD (jerryhalverson@co.manitowoc.wi.us)
Shawn Eckstein, Eckstein Agronomics, LLC (ecksteinag@tm.net)
File



April 30, 2026

FILE REF: R-2026-0047
 WPDES Permit #: WI-0062693

Gordon Speirs
 Shiloh Dairy LLC
 N8681 Bastian Road
 Brillion, WI 54110

Subject: Days of Storage Review for Shiloh Dairy LLCSE¼ of T20N, R20E, Section 16 in Brillion Township, Calumet County – NO ADDITIONAL ACTION REQUIRED

Dear Gordon Speirs:

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 Kaesey Glaess Dillman, MSA Professional Services, Inc. on March 18, 2026 on behalf of Shiloh Dairy LLC.

The Department reviewed the submitted calculations in accordance with ss. NR 243.14(9) and NR 243.15(3)(i) to (k), Wis. Adm. Code. Under s. NR 243.17(3)(c), Wis. Adm. Code, the permittee shall demonstrate compliance with the 180-day design storage capacity requirement at specified times. For the following liquid manure storage calculations, the Department has determined **no additional actions** on your part are required.

Days of Available Liquid Waste Storage: The submitted information states that Shiloh Dairy LLC has 223 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 5972. The liquid waste volumes are based on manure hauling logs for a collection period of 365 days. All runoff from the north calf hutch area and north feed storage area up to the 25-year, 24-hour storm is collected in permanent waste storage facilities 1-4 at the main farm, and waste storage facility 5 at the satellite facility. Runoff from the south feed storage area goes to a separate wastewater only collection system and is not included in the days of storage calculations. The south feed storage area has 29 days of process wastewater storage.

Total Liquid Waste Storage Capacity (gallons)						
Waste Storage	Total Vol. from Settled Top to Bottom	-Solids Storage	-25-yr, 24-hr Precip. on Storage	25-yr, 24-hr Collected Runoff	Freeboard Vol.	Max. Operating Level (MOL) Vol.
#1	3,672,820	267,326	415,197	128,432	289,206	2,572,659
#2	9,625,982	852,370		296,106	673,750	7,803,756
#3	14,873,304	1,282,532	339,707	449,348	1,025,894	11,775,823
#4	1,080,086	85,340		60,760	134,602	799,384
#5	12,267,633	815,748		461,912	1,171,529	9,818,444
Total MOL Vol:						32,770,066
Days of Storage:						223

Annual Manure and Process Wastewater Application Volumes			
Year	Gallons Applied	Avg. Yearly AUs	Gallons/AU
2025	53,819,555	5,972	9,012
2024	51,863,940	5,972	8,685
2023	49,371,268	5,156	9,575
2022	49,002,001	5,156	9,504
2021	41,050,327	5,071	8,095
Average Volume/AU			8,974
Average Annual Volume for Current AUs			53,592,728

South FSA (not included in DOS)

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	Annual Gallons
Feed Storage Leachate	560,775
North Feed Storage / Calf Hutch Runoff Collected	8,194,521
Net Precipitation on Storage Surface(s)	769,204
TOTAL:	9,524,500

Total Liquid Waste Storage Capacity (gallons)						
Waste Storage	Total Vol. from Settled Top to Bottom	-Solids Storage	-25-yr, 24-hr Precip. on Storage	25-yr, 24-hr Collected Runoff	Freeboard Vol.	Max. Operating Level (MOL) Vol.
#1	2,447,209		1,102,817	153,239	445,002	746,151
Total MOL Vol:						746,151
Days of Storage:						29

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 Review Engineer Intern
Watershed Management Program

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Matt Woodrow; DATCP
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Holly Stegemann; DNR-Northeast Region
(920) 360-0794; Holly.Stegemann@wisconsin.gov

Erin Hanson; DNR-Northeast Region
(920) 360-7845; erine.hanson@wisconsin.gov

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

Ariana Somma; DNR, Central Office
ariana.somma@wisconsin.gov



September 23, 2025

Gordon Speirs
Shiloh Dairy, LLC
6592 Ridge Royale Drive
Greenleaf, WI 54126

WPDES Permit No. WI-0062693-04-1
Calumet County

Subject: Shiloh Dairy WPDES Permit Reissuance Inspection Report

Dear Mr. Speirs:

On September 15, 2025, the Department of Natural Resources conducted a WPDES permit reissuance walkover inspection of Shiloh Dairy. Results and photos are included in the enclosed report. Follow up action items are noted on pages 5 and 6. Please review and submit appropriate items by due dates listed.

Shiloh Dairy's current WPDES permit will expire September 30, 2026. A permit reissuance application is due to the department by **April 1, 2026**.

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

Sincerely,

Holly Stegemann
Agricultural Runoff Management Specialist

Enclosure: Shiloh Dairy Permit Inspection Report

Electronic CC:
Anthony Reali - Calumet County LCD
Shawn Eckstein - Eckstein Agronomics
Joe Baeten - DNR

CAFO Compliance Report (09/23/2025)



Inspection Date: 09/15/2025

Inspection Type: Permit Reissue

Operation Name: Shiloh Dairy

WPDES Permit No. WI-0062693-04-1

Operation Address: Main Site: N8681 Bastian Road, Brillion, WI 54110
Loadout Pit: Harvestore Road (SW1/4 SE1/4 SEC.16, T20N, R20E)
Remote Pit: Church Street (S1/2, SW1/4, SEC.17, T20N, R20E)

On-Site Representative(s): Gordon Speirs & Travis Spiers, Owners/Operators

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

On September 15, 2025, Stegemann met with Gordon, Travis, and Shawn Eckstein (Eckstein Agronomy) to conduct a permit reissuance inspection of Shiloh Dairy. All facilities currently covered under Shiloh Dairy's permit were inspected. No liquid precipitation had fallen 24 hours prior to the inspection. Follow up actions are listed on pages 5 and 6. Expansion under consideration, potential timeline in year 4 or 5 of the upcoming permit term.



Figure 1. Aerial overview of all facilities covered under Shiloh Dairy's WPDES permit.

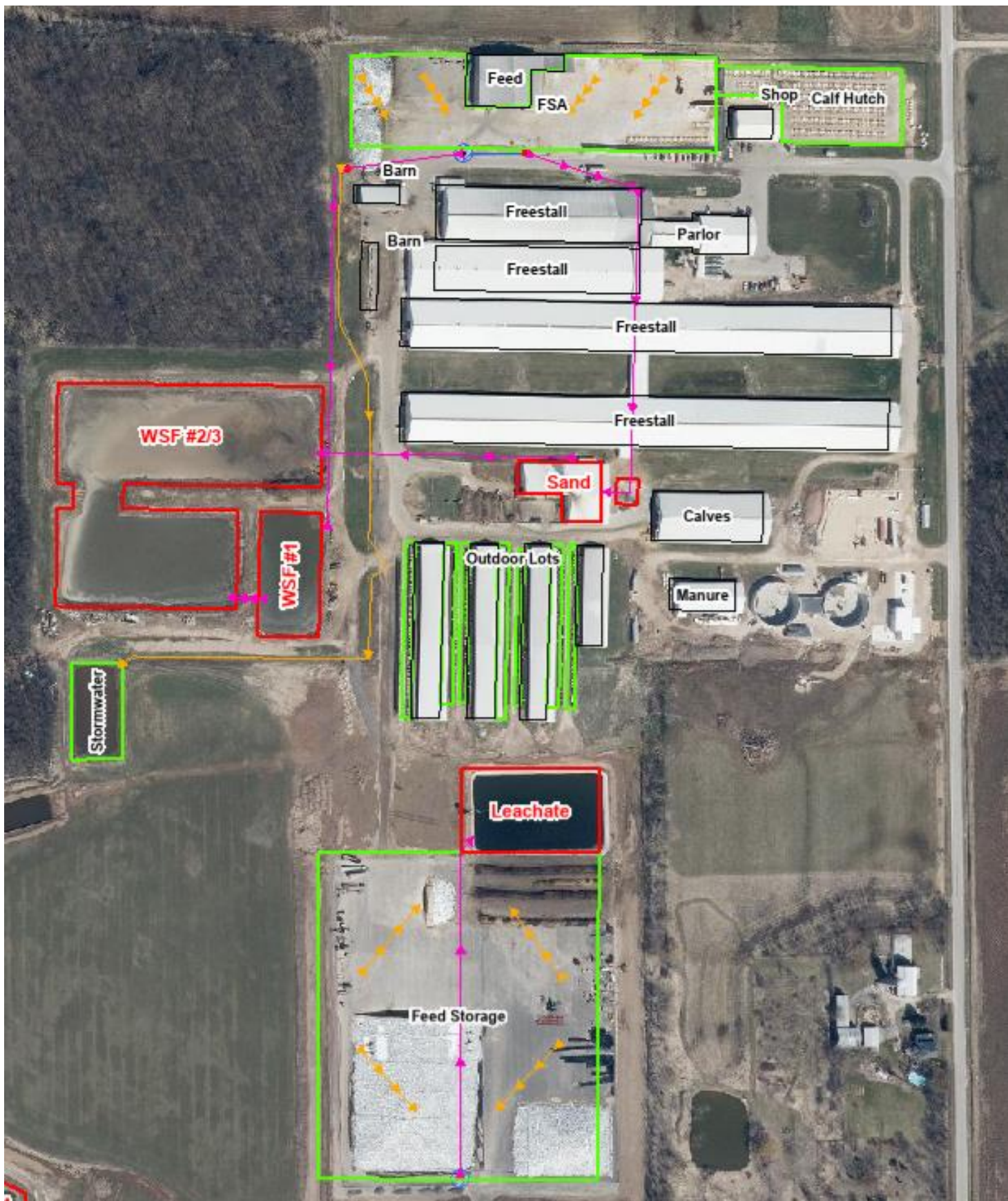


Figure 2. Aerial overview of Shiloh Dairy. Pink arrows indicate manure transfer lines. Orange arrows indicate approximate runoff flow paths.

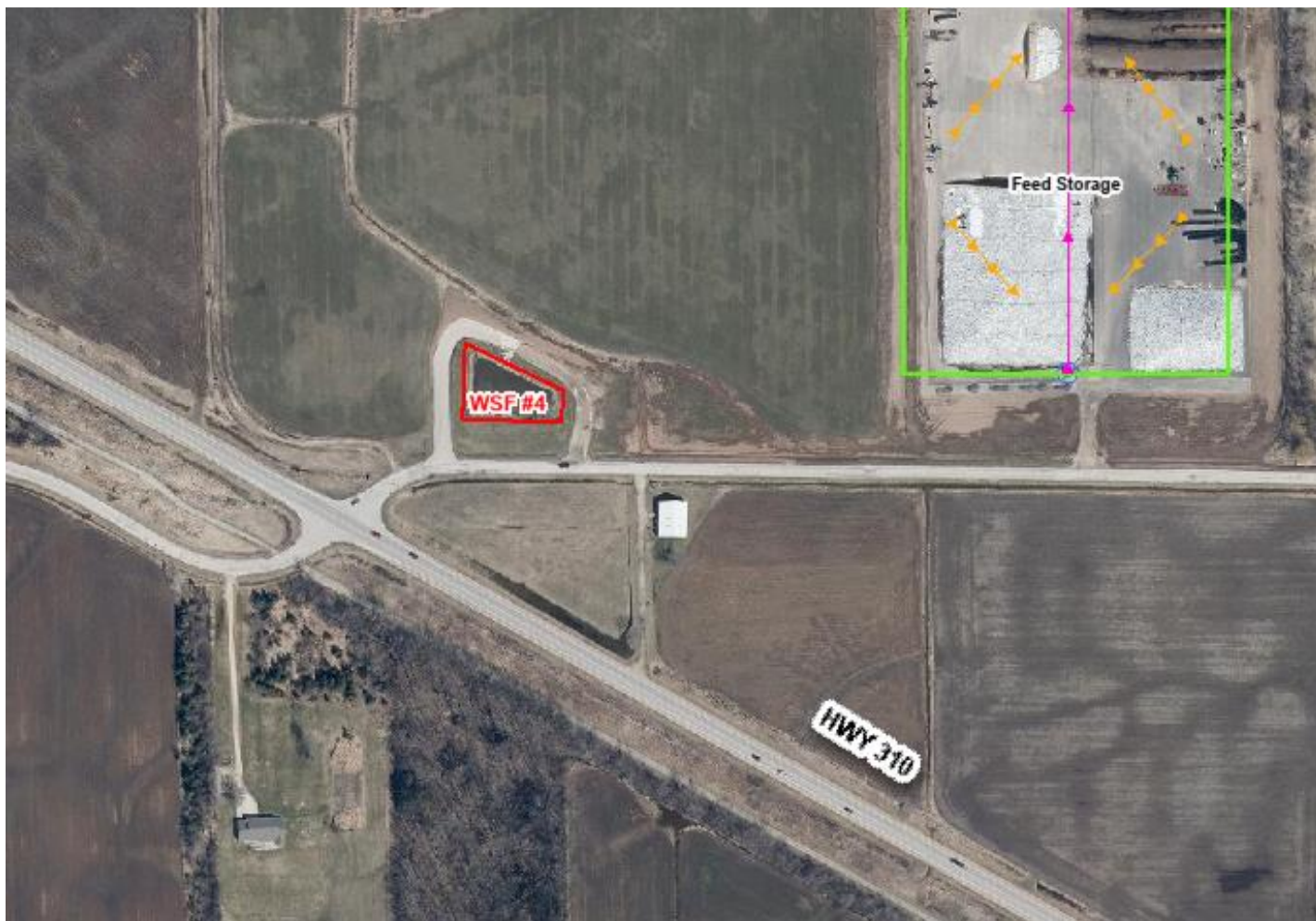


Figure 3. Aerial overview of WSF 4, the Loadout Pit, located directly southwest of the production site.



Figure 4. Aerial overview of WSF 5, located west of the main site.

SITE OBSERVATIONS

Feedlot Runoff

Shiloh Dairy utilizes concrete open-air feed lanes along the heifer barns. Manure and runoff is collected and transferred to the solids separator building. Changes to collection is planned to occur due to thick manure clogging the current transfer system.

The outdoor exercise lots, south of the heifer barns, have been abandoned.

Feedlot areas are managed to not have current or past indicators of discharges. Feedlot runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

Calf Hutch Areas

Shiloh Dairy utilizes one area on the northeast side of the production site for calf hutches. This area was recently expanded to include the east side of the north feed storage area with runoff from those hutches being collected by the feed storage area runoff controls. Calf hutch areas are managed to not have current or past indicators of discharges.

Waste Storage Facilities

Manure and process wastewater are stored in three waste storage facilities (WSF) on site and two WSFs offsite. Animal bedding switched from sand to recycled manure solids in 2020. The sand separation building is now utilized to store the separated manure solids.

WSF 1 is a clay lined facility, located west of the heifer barns. This facility has a maximum operating level of 2,076,121 gallons and was constructed in 2008. WSF 1 accepts manure and process wastewater from the north feed storage area. At the time of inspection, safety fencing was present.

WSF 2/3 is a clay lined facility, located west of WSF 1. This facility has a maximum operating level of 11,150,533 gallons and was modified in 2012 to combine the two cells. WSF 2/3 accepts manure and process wastewater that comes from barns and the manure processing building. At the time of inspection, permanent markers and safety fencing was present.

WSF 4, also called the Loadout Pit, is a clay lined facility, located on Harvestore Road, just southwest of the Dairy. WSF 4 has a maximum operating level of 877,995 gallons and was constructed in 2011. The storage is normally empty when not actively land applying. At the time of inspection, safety fencing was present.

WSF 5, also called the Remote Pit, is a clay lined facility, located on Church Road, about two miles west of the Dairy. WSF 5 has a maximum operating level of 10,179,408 gallons and was constructed in 2017. At the time of inspection, permanent markers and safety fencing were present.

WSF 6, the leachate basin, is a concrete storage, located on the north side of the new feed storage area. WSF 6 has a maximum operating level of 1,034,652 gallons and was constructed in 2023. This storage accepts leachate and runoff from the adjacent feed pad. At the time of inspection, permanent markers and safety fencing were present.

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 and in good repair.

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

Waste from milking center is transferred to WSF 2/3. Process wastewater sources are managed to not have current or past indicators of discharges.

Feed Storage Area Runoff

All feed is kept on two feed storage areas, one on the north side and one on the south side of the production site. The northern feed storage area is concrete that is pitched to convey runoff towards two collection tanks

that transfer the runoff to WSF 1. The Dairy uses these two tanks to collect 100% of runoff from the feed storage area. Behind the collection tank on the west side of the facility, is an overflow channel that flows south, in a manmade ditch, to the storm water pond.

The small barn directly south of the north feed storage collection has had issues in the past with leaking/discharges. The barn was fixed, and a collection inlet and gravity pipe were installed to direct any future runoff to the leachate collection system.

The new feed storage area on the south side of the production site is asphalt pad, with the north half of the pad being pitched to the north. Runoff and leachate gravity flow north to the leachate basin. The south half of the pad is pitched south to convey runoff to a tile inlet located near the center of the south edge of the pad. The runoff then subsurface gravity flows through a HPDE pipe north to the leachate basin.

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, in good repair and in compliance with permit requirements.

Animal Mortality Disposal

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

Ancillary Service Areas

Ponded process wastewater was observed just south of the barn closest to the leachate collection tank. This area used to store tires for feed. Now that the tires are stored on the new feed pad, ponding and potential flow paths were more evident. Discussions of adding a curb to direct runoff to the collection inlet of the small barn were had. Flow path from this ponded water would lead from the barn to the west ditch that flows south the stormwater pond. Traces of feed solids were present, but no active flow was observed at the time of inspection.

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. Manure pits without markers are being measured with estimated percentages of volume. Actual manure level readings need to be made for each storage.

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

Areas of Concern

- WSF 1 and the Loadout Pit do not have permanent markers installed
- Ponding process wastewater may lead to unpermitted discharged from the production site

Permit Violations

None

Action Items

- Submit to the department, no later than **12/31/2025**, photo documentation showing permanent markers have been installed in WSF 1 and the Loadout Pit.

- Submit to the department, no later than **10/31/2025**, a timeline for upgrades to address the ponding process wastewater near the leachate collection basin.

Items for Next Permit Term

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)
- 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 #:	2850
Date/Time of Photo:	09/15/2025 10:40AM
Photo By:	Stegemann
Photo Location:	Outdoor Lots

Photo Description:

View of outdoor heifer lots, looking south.



Photo #:	2846
Date/Time of Photo:	09/15/2025 10:39AM
Photo By:	Stegemann
Photo Location:	Outdoor Lots

Photo Description:

View of outdoor heifer lots, looking east.



Photo #:	2852
Date/Time of Photo:	09/15/2025 10:41AM
Photo By:	Stegemann
Photo Location:	Solid Stacking

Photo Description:

View of area where changes are planned to be made for outdoor lot solids collection.



Photo #:	2854
Date/Time of Photo:	09/15/2025 10:41AM
Photo By:	Stegemann
Photo Location:	Solid Stacking

Photo Description:

View of area where changes are planned to be made for outdoor lot solids collection.



Photo #:	5716
Date/Time of Photo:	09/15/2025 9:52AM
Photo By:	Stegemann
Photo Location:	Calf Hutch Area

Photo Description:

View of calf hutch area,
looking east.



Photo #:	2722
Date/Time of Photo:	09/15/2025 9:53AM
Photo By:	Stegemann
Photo Location:	Calf Hutch Area

Photo Description:

View of calf hutch area,
looking west.



Photo #:	2728
Date/Time of Photo:	09/15/2025 9:54AM
Photo By:	Stegemann
Photo Location:	Calf Hutch Area

Photo Description:

View of calf hutches on east side of north feed storage area, looking west.



Photo #:	2734
Date/Time of Photo:	09/15/2025 9:55AM
Photo By:	Stegemann
Photo Location:	Calf Hutch Area

Photo Description:

View of calf hutches on east side of north feed storage area, looking east.



Photo #:	2790
Date/Time of Photo:	09/15/2025 10:06AM
Photo By:	Stegemann
Photo Location:	WSF 1

Photo Description:

View of WSF 1, looking northeast.



Photo #:	2792
Date/Time of Photo:	09/15/2025 10:06AM
Photo By:	Stegemann
Photo Location:	WSF 1

Photo Description:

View of WSF 1, looking east.



Photo #:	2796
Date/Time of Photo:	09/15/2025 10:07AM
Photo By:	Stegemann
Photo Location:	WSF 2

Photo Description:

View of WSF 2, looking northwest.

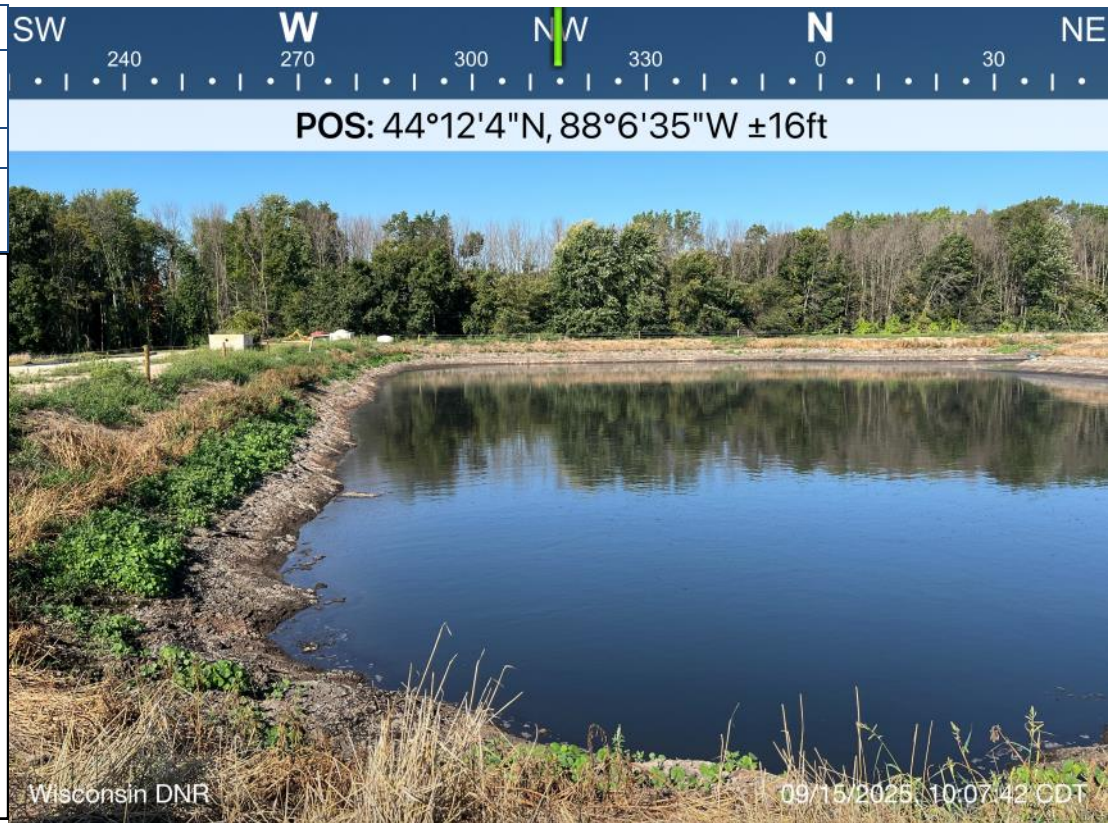


Photo #:	2800
Date/Time of Photo:	09/15/2025 10:08AM
Photo By:	Stegemann
Photo Location:	WSF 2/3

Photo Description:

View of connection between WSF 2 and WSF 3, looking north.



Photo #:	2776
Date/Time of Photo:	09/15/2025 10:04AM
Photo By:	Stegemann
Photo Location:	WSF 3

Photo Description:

View of WSF 3, looking west.



Photo #:	2774
Date/Time of Photo:	09/15/2025 10:04AM
Photo By:	Stegemann
Photo Location:	WSF 3

Photo Description:

View of permanent markers in WSF 2/3, looking west.



Photo #:	2782
Date/Time of Photo:	09/15/2025 10:05AM
Photo By:	Stegemann
Photo Location:	WSF 3

Photo Description:

View of WSF 3, looking northwest.

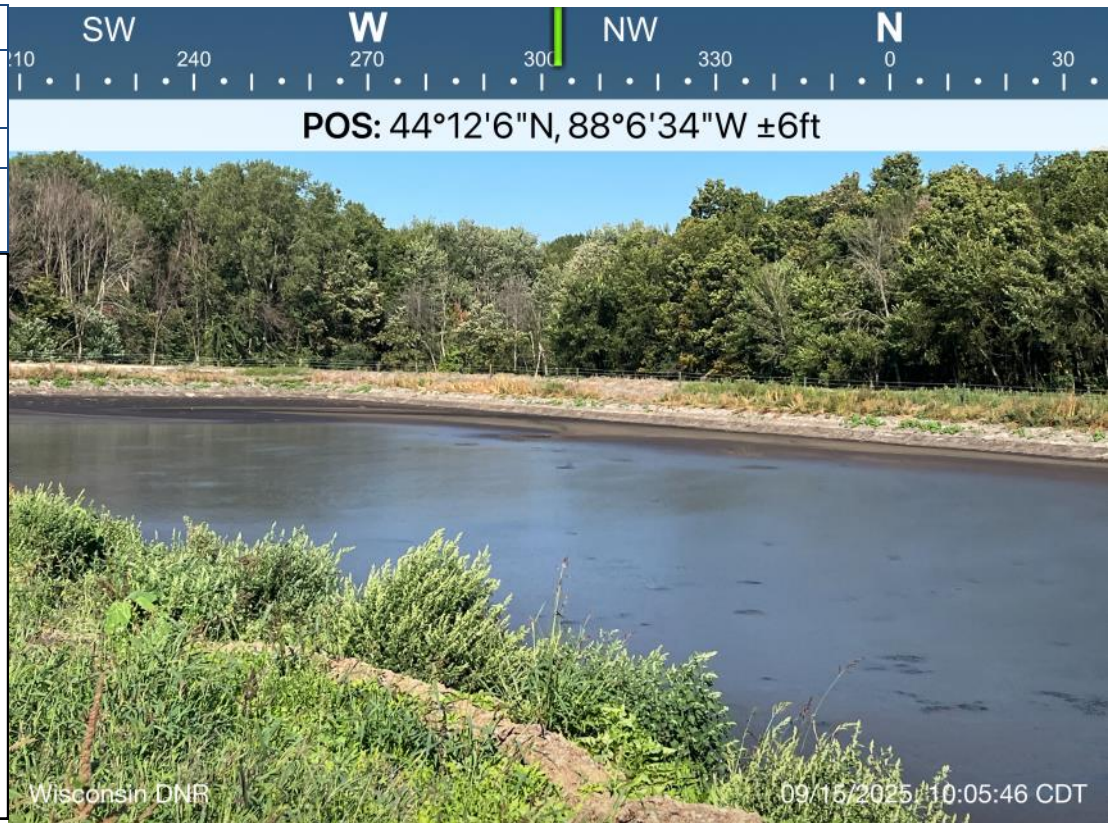


Photo #:	2870
Date/Time of Photo:	09/15/2025 10:54AM
Photo By:	Stegemann
Photo Location:	WSF 4

Photo Description:

View of WSF 4, the Loadout Pit, looking west.



Photo #:	2872
Date/Time of Photo:	09/15/2025 10:54AM
Photo By:	Stegemann
Photo Location:	WSF 4

Photo Description:

View of WSF 4, the Loadout Pit, looking west.



Photo #:	2874
Date/Time of Photo:	09/15/2025 10:54AM
Photo By:	Stegemann
Photo Location:	WSF 5

Photo Description:

View of WSF 5, the Remote Pit, looking west.

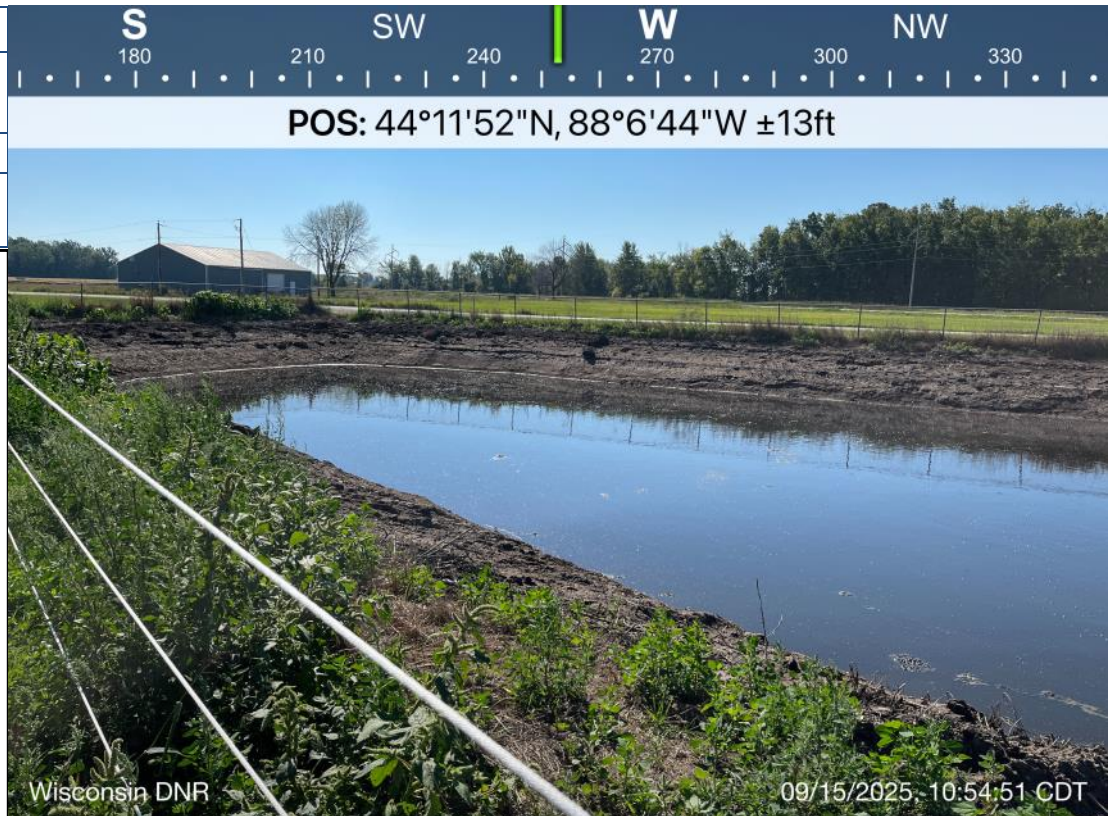


Photo #:	2878
Date/Time of Photo:	09/15/2025 10:59AM
Photo By:	Stegemann
Photo Location:	WSF 5

Photo Description:

View of permanent markers in WSF 5, the Remote Pit, looking west.

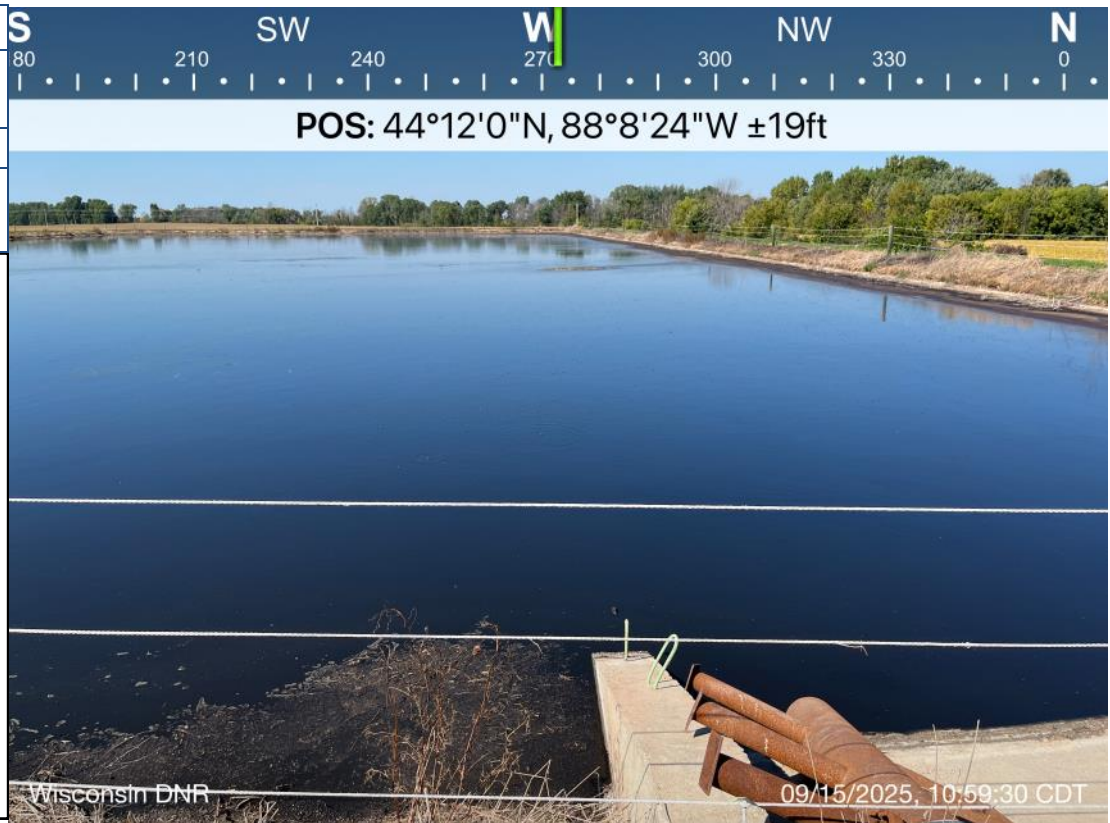


Photo #:	2818
Date/Time of Photo:	09/15/2025 10:18AM
Photo By:	Stegemann
Photo Location:	WSF 6

Photo Description:

View of permanent markers in WSF 6, the Leachate Basin, looking northeast.



Photo #:	2822
Date/Time of Photo:	09/15/2025 10:19AM
Photo By:	Stegemann
Photo Location:	WSF 6
Photo Description:	
View of WSF 6, the Leachate Basin, looking east.	



Photo #:	2824
Date/Time of Photo:	09/15/2025 10:19AM
Photo By:	Stegemann
Photo Location:	South FSA
Photo Description:	
View of manure solids stacked on the feed storage area, looking southeast.	



Photo #:	2670
Date/Time of Photo:	09/15/2025 10:00AM
Photo By:	Stegemann
Photo Location:	South of North FSA

Photo Description:

View of ponding process wastewater located south of the north feed storage area collection, looking southwest.



Photo #:	2756
Date/Time of Photo:	09/15/2025 9:59AM
Photo By:	Stegemann
Photo Location:	Barn Runoff

Photo Description:

View of inlet for runoff collection from the small barn south of the north feed storage area runoff collection.

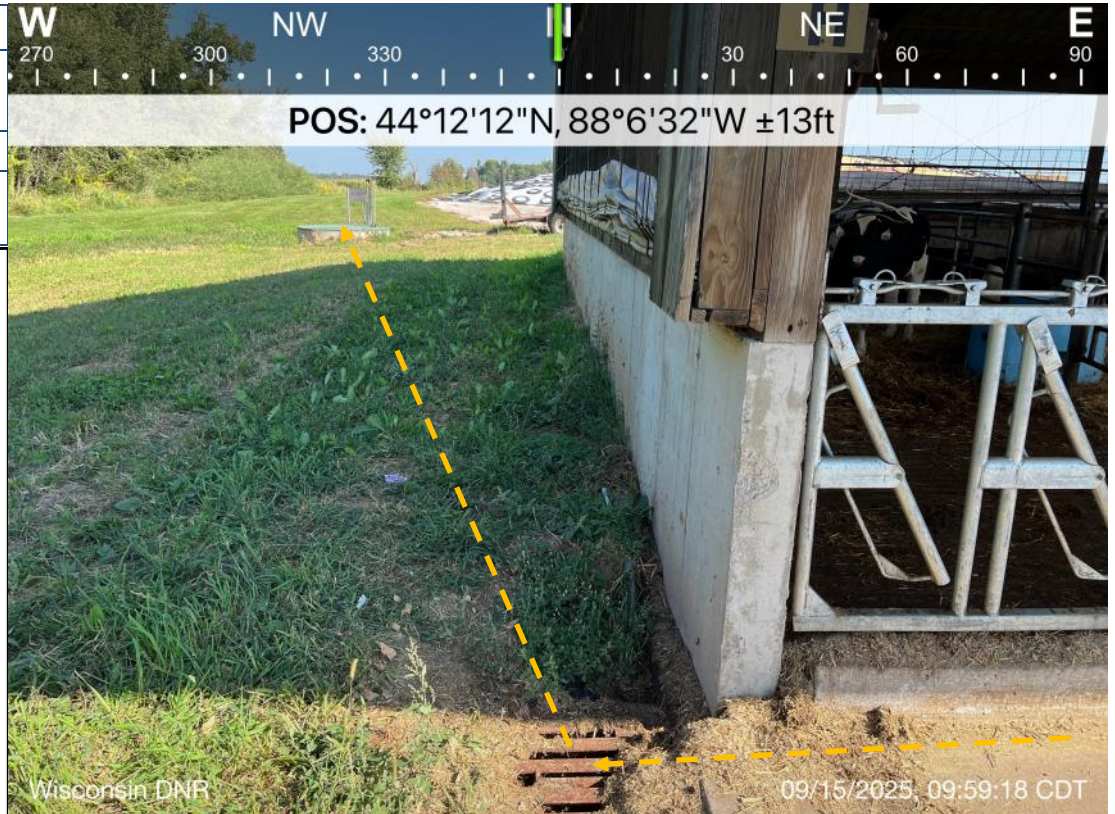


Photo #:	2732
Date/Time of Photo:	09/15/2025 9:55AM
Photo By:	Stegemann
Photo Location:	North FSA

Photo Description:

View of north feed storage area, looking northwest.



Photo #:	2746
Date/Time of Photo:	09/15/2025 9:57AM
Photo By:	Stegemann
Photo Location:	North FSA

Photo Description:

View of north feed storage area, looking north.



Photo #:	2814
Date/Time of Photo:	09/15/2025 10:18AM
Photo By:	Stegemann
Photo Location:	South FSA

Photo Description:

View of south feed storage area, looking southwest.



Photo #:	2826
Date/Time of Photo:	09/15/2025 10:19AM
Photo By:	Stegemann
Photo Location:	South FSA

Photo Description:

View of south feed storage area, looking north.



Photo #:	2828
Date/Time of Photo:	09/15/2025 10:20AM
Photo By:	Stegemann
Photo Location:	South FSA

Photo Description:

View of south feed storage area, looking southwest.



Photo #:	2836
Date/Time of Photo:	09/15/2025 10:22AM
Photo By:	Stegemann
Photo Location:	South FSA

Photo Description:

View of collection inlet for the south half of the south feed storage area, looking north.



Photo #:	2840
Date/Time of Photo:	09/15/2025 10:35AM
Photo By:	Stegemann
Photo Location:	South FSA

Photo Description:

View of south feed storage area, looking north.



Photo #:	2844
Date/Time of Photo:	09/15/2025 10:37AM
Photo By:	Stegemann
Photo Location:	South Heifer Lots

Photo Description:

View of area south of heifer barns where exercise lots used to be located, looking east.



Photo #:	2864
Date/Time of Photo:	09/15/2025 10:44AM
Photo By:	Stegemann
Photo Location:	Digesters
Photo Description:	
View of digester tanks, looking southeast.	



Photo #:	2806
Date/Time of Photo:	09/15/2025 10:10AM
Photo By:	Stegemann
Photo Location:	Stormwater
Photo Description:	
View of stormwater pond, looking northeast.	

