

Permit Fact Sheet

General Information

Permit Number	WI-0066974-02-0
Permittee Name and Address	McFarlandale Dairy, LLC N302 County Road K, Watertown, WI 53098
Permitted Facility Name and Address	McFarlandale Dairy N302 County Road K, Watertown WI, 53098; Dodge County WI, Town of Shields, NE ¼ of SE ¼ Sec. 36 T09N R14E
Permit Term	December 01, 2026 to November 30, 2031
Receiving Water	Unnamed tributaries within the Johnson Creek-Rock River Watershed, and ground waters of the state.
Discharge Type	Existing source CAFO per NR 243.03(23) as the facility has been housed animal prior to 2003.

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.)	32	0	80	0	09/20/2028
Milking and Dry Cows	2100	2145	6720	6864	09/20/2028
Heifers (400 lbs. to 800 lbs.)	48	80	48	80	09/20/2028
Heifers (800 lbs. to 1200 lbs.)	55	50	165	150	09/20/2028
Total	2235	2145	7013	6864	

Facility Description

McFarlandale Dairy, LLC is an existing Concentrated Animal Feeding Operation (CAFO) located in the Township of Shields in Dodge County. McFarlandale Dairy is owned and operated by McFarland and Bender Families. McFarlandale Dairy has one production area located at N302 County Road K, Watertown WI, 53098. At the production site there is three waste storage facilities, one feed storage area, 2 heifer barns, four calf barns, four dairy freestall barns.

The current dairy herd size of 2,235 animal units (1,500 milking & dry cows, 130 heifers, and 160 calves). A planned herd expansion to 7,013 animal units (4,800 milking & dry cows, 230 heifers, and 400 calves) by 2031. McFarlandale Dairy is estimated to produce 23,489,560 gallons of manure and process wastewater and 2,279 tons of solid manure in the first year of the permit term. Once full expansion has been reached it is estimated the farm will generate 63,194,708 gallons of manure and process wastewater and 2,666 tons of solid manure by 2031. McFarlandale Dairy plans to complete the construction of a new waste storage facility (R 2026-0115) in 2026 and will then have 287 days of liquid manure and process waste storage, approximately 44.5 million gallons and approximately 5 million gallons of process wastewater

storage. Mcfarlandale Dairy owns and rents approximately 4,654 acres of cropland, of which 4,522 acres are available for manure application.

Substantial Compliance Determination

Enforcement During Last Permit: Enforcement During Last Permit: No enforcement actions were taken during the previous permit term.

After a desk top review of annual reports, nutrient management plan updates, compliance schedule items, and a site visit on September 4, 2026, 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)	
002	WSF 1: Sample point 002 is for liquid waste storage facility 1 (WSF 1), formally WSF 2. WSF 1 is a liquid-tight concrete storage located southeast of the three original freestall barns. The facility has a capacity of 7,724,838 gallons with a MOL Volume of 6,947,397 gallons and was constructed in 2017. This storage accepts manure and process wastewater from the freestall barns. From the original barn it accepts waste from two concrete reception tanks, formerly; WSF 3 (sample point 003- 9,545 gallons located on the southeast side of the northern dairy freestall barn.) and WSF 4 (sample point 004- 9,709 gallons, located on the south side of the central dairy freestall barn). WSF 1 also receives waste from the newest (2026) southern freestall barn. The southern most barn has 2 reception tanks that received waste from auger channels before being pumped to WSF 1, the adjoining parlor has a manhole with a gravity flow channel to a reception tank that is also pumped to WSF 1. Waste from WSF 1 then gravity flows to WSF 2. The access ramp is used to stack solid manure when field conditions do not allow land application or headland stacking. WSF 1 was last evaluated in 2021, and no further action is required.	
006	Miscellaneous Solid Manure: Sample point 006 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, solids removed from liquid waste storage facilities, etc. Representative samples shall be taken for each manure source type.	
007	Feed Storage Area & Runoff Control System: Sample point 007 is for visual monitoring and inspection of the feed storage area and associated runoff control system located at north side of the production area. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. The feed storage area runoff controls were updated in 2024 with plan approval.	
009	Storm Water Runoff Control System: Sample point 009 is for visual monitoring and inspection of all production site storm water conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, grassed waterways and other diversion systems that transport uncontaminated storm water. Proper operation and maintenance is required to keep uncontaminated runoff diverted away from manure and process wastewater handling systems. Weekly inspections are required and shall be recorded according to monitoring program.	

Sample Point Designation For Animal Waste		
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)	
010	Headland Stacking 010: Sample point 010 is for solid manure stacked in approved headland stacking locations. Representative samples shall be taken of this manure prior to land application. Note: Headland stacking sites are subject to production site discharge limitations; weekly visual monitoring is required during use of stacking sites to ensure discharges meet permit requirements.	
011	WSF 2: Sample point 011 is for liquid waste storage facility 2 (WSF 2). The new WSF 2 is an L shaped liquid-tight concrete storage located along the north and east side of WSF 1. The facility has a MOL capacity of 37,077,756 gallons and was constructed in 2026 with plan approval. This storage accepts manure and process wastewater from WSF 1. See Schedules section for due dates for final construction and post construction documentation.	
012	WSF PWW: Sample point 012 is for liquid waste storage facility Process WasteWater (WSF PWW). WSF PWW is a liquid-tight concrete storage located north of the feed storage area on the north side of the production site. The facility has a MOL capacity of 5,012,188 and was constructed in 2024 with plan approval. This storage accepts process wastewater from the feed storage area via surface flow or manholes and piping. The storage also accepts manure from WSF 1 to meet the 180-days liquid manure storage requirement while the construction of WSF 2 is complete. Once WSF 2 is completed, WSF PWW will only accept process wastewater from the feed storage area, this storage replaces WSF 1 and WSF 5 which were abandoned with plan approval.	

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 [Enter number of days of storage](#) days of storage for liquid manure. The permittee must maintain 180 days of storage, unless temporary reductions in required storage are approved by the Department.

Solid Manure Stacking

The operation has proposed to stack solid manure. All stacking of solid manure shall be done in accordance ch. NR 243, Wis. Adm. Code, which includes restrictions from NRCS Standard 313. Stacking of manure is considered to be part of the production area and is subject to the Production Area Discharge Limitations.

Ancillary Service and Storage Areas

The permittee shall take preventative maintenance actions and conduct visual inspections to minimize pollutant discharges from areas of the operation that are not part of the production area or land application areas. These areas are called ancillary service and storage areas and include access roads, shipping and receiving areas, maintenance areas, refuse piles and CAFO outdoor vegetated areas.

Nutrient Management

With 2,235 animal units (1,500 milking & dry cows, 130 heifers, and 160 calves). A planned herd expansion to 7,013 animal units (4,800 milking & dry cows, 230 heifers, and 400 calves) by 2031. It is estimated that approximately 23,489,560 gallons of manure and process wastewater and 2,279 tons of solid manure in the first year of the permit term. Once full expansion has been reached it is estimated the farm will generate 63,194,708 gallons of manure and process wastewater and 2,666 tons of solid manure by 2031. The permittee owns *approximately* 1,019 acres of cropland and rents about 3,635. Given the rotation commonly used by the permittee, 4,522 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: 002- WSF 1; 011- WSF 2, and 012- WSF PWW

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 001, WSF 1 was removed as Mcfarlandale Dairy abandoned WSF 1 with department approval on June 27, 2024 (R-2024-0079)

Sample Point 002, WSF 2 was renamed to WSF 1 at the request of the farm with the abandonment of sample point 001 and construction of Sample point 011, the new WSF 2. Sample points 003 and 004 were also incorporated into the sample point 002.

Sample Points 003 and 004 were removed and incorporated into Sampel Pont 002 to better represent the management and flow of manure on the production site.

Sample Point 005 was removed as Mcfarlandale Dairy abandoned WSF 1 with department approval on June 27, 2024 (R-2024-0079)

Sample point 011 was added for new Waste Storage Facility 2 (WSF 2) approved by the department on July 28, 2026 (R-2026-0115)

Sample point 012 was added for new Waste Storage Facility Process Wastewater (WSF PWW) approved by the department on June 27, 2024 (R-2024-0079)

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: 006- Miscellaneous Solid Manure and 010- 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

No changes were made.

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 Runoff Controls and 009- Storm Water Controls

1.3.1 Changes from Previous Permit

Sample point 007 was update to reflect the improvements made to the feed storage area with department approval on June 27, 2024 (R-2024-0079)

Sample point 008 was removed as the calf hutch area was abandoned with the construction of the calf barns.

1.3.2 Explanation of Operation and Management Requirements

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

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Update Emergency Response Plan: Update a written Emergency Response Plan within 30 days of permit coverage and submit to the Department.	01/01/2027

2.2 Explanation of Schedules

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

2.3 Monitoring & Inspection Program

Required Action	Due Date
Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program within 30 days of the effective date of this permit.	01/01/2027

2.4 Explanation of Schedules

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

2.5 Annual Reports

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

Required Action	Due Date
Submit Annual Report #1: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2027
Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2028
Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2029
Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2030
Submit Annual Report #5: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2021

Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed.	
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2.6 Explanation of Schedules

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

2.7 Nutrient Management Plan

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

Required Action	Due Date
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. Also to include a narrative and information on the proposed land base in preparation for the proposed expansion, per NMP approval letter dated August 11, 2026	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. Also to include a narrative and information on the proposed land base in preparation for the proposed expansion, per NMP approval letter dated August 11, 2026	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. Also to include a narrative and information on the proposed land base in preparation for the proposed expansion, per NMP approval letter dated August 11, 2026.	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. Also to include a narrative and information on the proposed land base in preparation for the proposed expansion, per NMP approval letter dated August 11, 2026.	03/31/2030
Submit NMP Update #5: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2031
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

2.8 Explanation of Schedules

Nutrient management plan updates are required to be submitted per s. NR 243.19(3) Wis. Admin. Code. And additional information per the Nutrient Management Plan Approval letter issued on August 11, 2026

2.9 Manure Storage Facility - Installation

Complete construction and post construction for WSF 2 (R-2026-0115) approved on July 28, 2026

Required Action	Due Date
Complete Installation: Complete construction of the manure storage facility. The facility shall be functional and in operation by the specified Date Due. Post construction documentation shall be submitted within 60 days of completion of the project.	04/01/2027

2.10 Explanation of Schedules

Complete construction according to approved plans and submit post construction according to NR 243.15 (10)

2.11 Permanent Markers - Installation

Install and update permanent marker as approved in plans R-2026-0155, notify department when complete and include documentation of installation with post construction documentation for WSF 2.

Required Action	Due Date
Complete Installation: Complete installation of permanent markers. The facility shall be functional and in operation by the specified Date Due. Post construction documentation shall be submitted within 60 days of completion of the project.	04/01/2027

2.12 Explanation of Schedules

Update or install permanent markers according to NR 243.16 (4)

2.13 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	06/01/2031

2.14 Explanation of Schedules

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

Attachments

Inspection Report with Map(s) September 4, 2026

Nutrient Management Plan Approval Letter(s) August 11, 2026

Conditional Approval of Plans & Specifications for a Proposed Waste Storage Facility 2 July 28, 2026

Days of Storage Review August 3, 2026

Application Document links

- <https://permits.dnr.wi.gov/water/SitePages/DocSetView.aspx?DocSet=AG-APP-SC-2026-14-X06-01T10-37-52&Loc=undefined>
- <https://permits.dnr.wi.gov/water/SitePages/DocSetViewDet.aspx?DocSet=AG-NMP-SC-2026-14-X06-01T10-37-52>
- <https://permits.dnr.wi.gov/water/SitePages/DocSetViewDet.aspx?DocSet=AG-PNS-SC-2026-14-X06-01T10-37-52>

Public Notice

Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Eric Struck Agricultural Runoff Management Specialist

Date: September 18, 2026



September 18, 2026

Robb Bender
McFarlandale Dairy LLC
N302 County Road K
Watertown WI 53098

WPDES Permit #: WI-0066974-01-0
Dodge County

Subject: Reissuance Inspection Report Summary

Dear Mr. Bender:

Attached you will also find a copy of the inspection report from the department's reissuance inspection on August September 4, 2026. Please review the attached site inspection report. The end of the report summarizes areas of concern, action items, and possible schedule items for the next permit term.

Thank you for the great communication through the expansion process.

If you have any questions regarding this letter, inspection report, or permit requirements, please contact me at (608) 422-1512 or eric.struck@wisconsin.gov.

Sincerely,

Eric J. Struck
Agricultural Runoff Management Specialist – Bureau of Watershed Management
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road, Fitchburg, WI 53711
Cell: (608)-422-1512
eric.struck@wisconsin.gov

Attachments: Inspection report September 4, 2026

CAFO Compliance Report September 18, 2026



Inspection Date: September 4, 2026

Inspection Type: Permit Reissuance Inspection

Operation Name: McFarlandale Dairy LLC

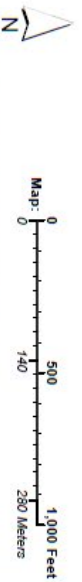
Operation Address: N302 County Road K, Watertown WI, 53098; Dodge County WI, Town of Sheilds, NE ¼ of SE ¼ Sec. 36 T09N R14E

On-Site Representative(s): Robb Bender, Peter McFarland (McFarlandale Dairy LLC), Dave Buss (NuSolutions Agronomy LLC)

DNR Staff (indicate who is the report writer): Eric Struck (writer)

Summary

On September 4, 2026, Eric Struck (Inspector), DNR agricultural runoff management specialist met with Robb Bender and Peter McFarland, owners and operators of McFarlandale Dairy LLC (McFarlandale Dairy), to conduct a permit reissuance inspection at McFarlandale Dairy. McFarlandale Dairy was joined by Dave Buss, agronomist with NuSolutions Agronomy LLC. McFarlandale Dairy is located at N302 County Road K, Watertown WI, 53098; Dodge County WI, Town of Sheilds, NE ¼ of SE ¼ Sec. 36 T09N R14E. McFarlandale Dairy is currently operating under WPDES Permit No. WI-0066974-01-0, which became effective on November 1, 2022, and will expire on September 30, 2027. McFarlandale Dairy has proposed expansion and has submitted a reissuance application early to incorporate the expansion into the reissuance process. The current permit covers one production area. The production area consists of three waste storage facilities (one under construction during the inspection), one feed storage area, four calf barns, three heifer barns and four dairy freestall barns (one proposed to be constructed in the winter of 2026). A new parloer will also be constructed in the winter of 2026, the existing parlor will remain for non-saleable milk. McFarlandale Dairy currently has 2,235 animal units (1,500 milking & dry cows, 130 heifers, and 160 calves). A planned herd expansion to 7,013 animal units (4,800 milking & dry cows, 230 heifers, and 400 calves) by 2031. Weather during the inspection was cloudy and reached approximately 84 °F. The area in proximity of McFarlandale Dairy received approximately 0.75 inches of rain on September 4, 2026, according to Water Underground. No water quality samples were taken as part of the inspection.



Service Layer Credits:
 Latest Leaf Off - DNR Detailed Feature VTL (WTM) - Wetland Inventory NWI: Calvin Lawrence, Dennis Weise, Nina Rinn, Wetlands - Additional Data: Surface Water Data Viewer Team

Map projection: NAD 1983 HARN Wisconsin TM

This map is a product generated by a DNR web mapping application.
 This map is for informational purposes only and may not have been prepared for legal engineering or surveying purposes. The user is solely responsible for verifying the accuracy of information before using for any purpose. By using this product for any purpose user agrees to be bound by all disclaimers found here: <https://dnr.wisconsin.gov/legal>

Date Printed: 9/17/2026 9:55 PM

- Legend:** (Some map layers may not be displayed)
-  Wetland Class Areas
 -  Wetland Identifications and Confirmations
 -  Wetland Indicators
 -  24K Intermittent Streams
 -  24K Streams and Rivers
 -  Latest Leaf Off Index
 -  Latest Leaf Off Imagery

Notes:



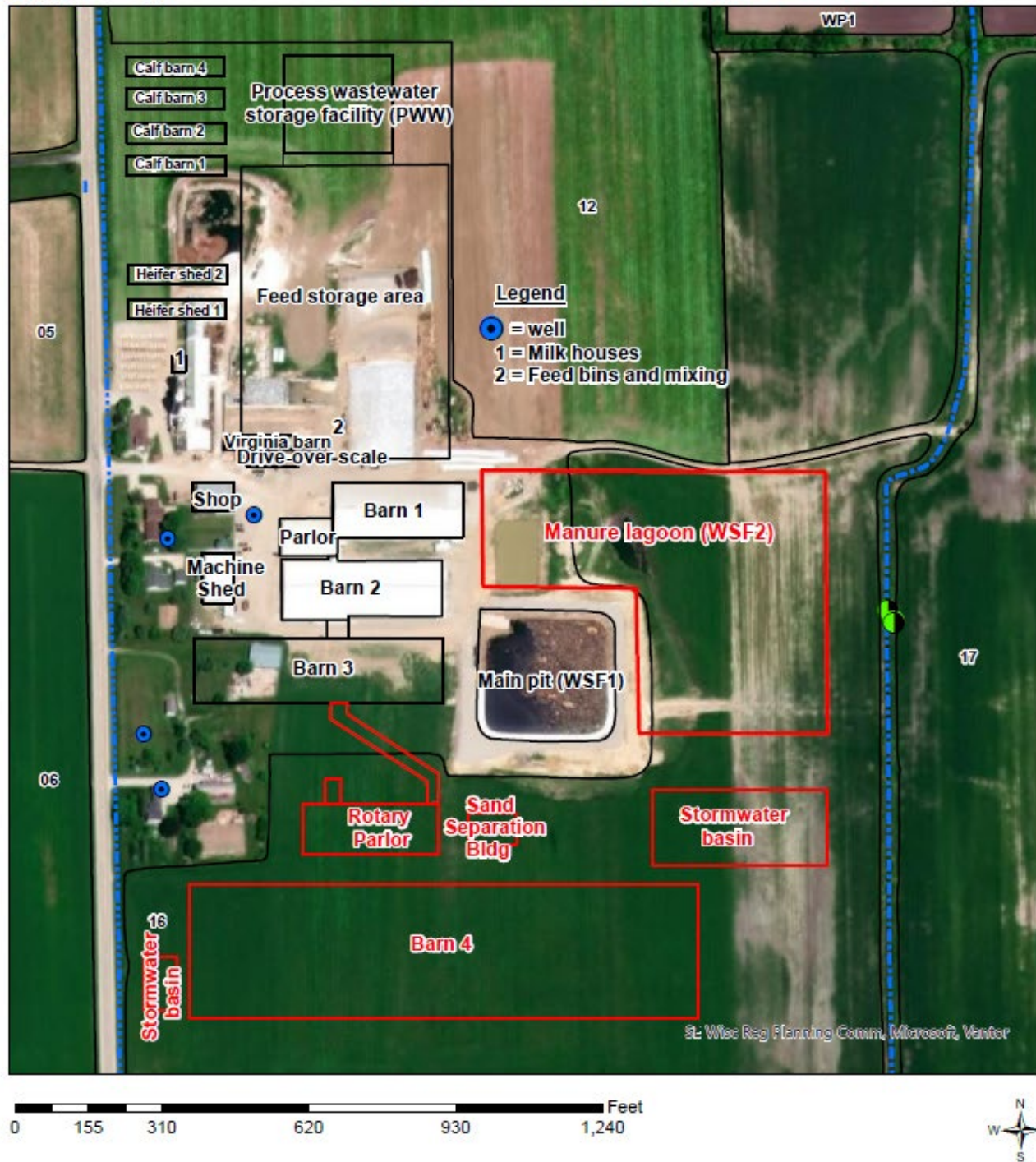
Map 1. Production site map and surrounding area showing wetland type soils (purple) and intermittent streams. (Unnamed (WBIC: 5034022) east of production area and Unnamed (WBIC: 5034013) north of production area. Source: WDNR Surface Water Data Viewer.

Facility Site Map



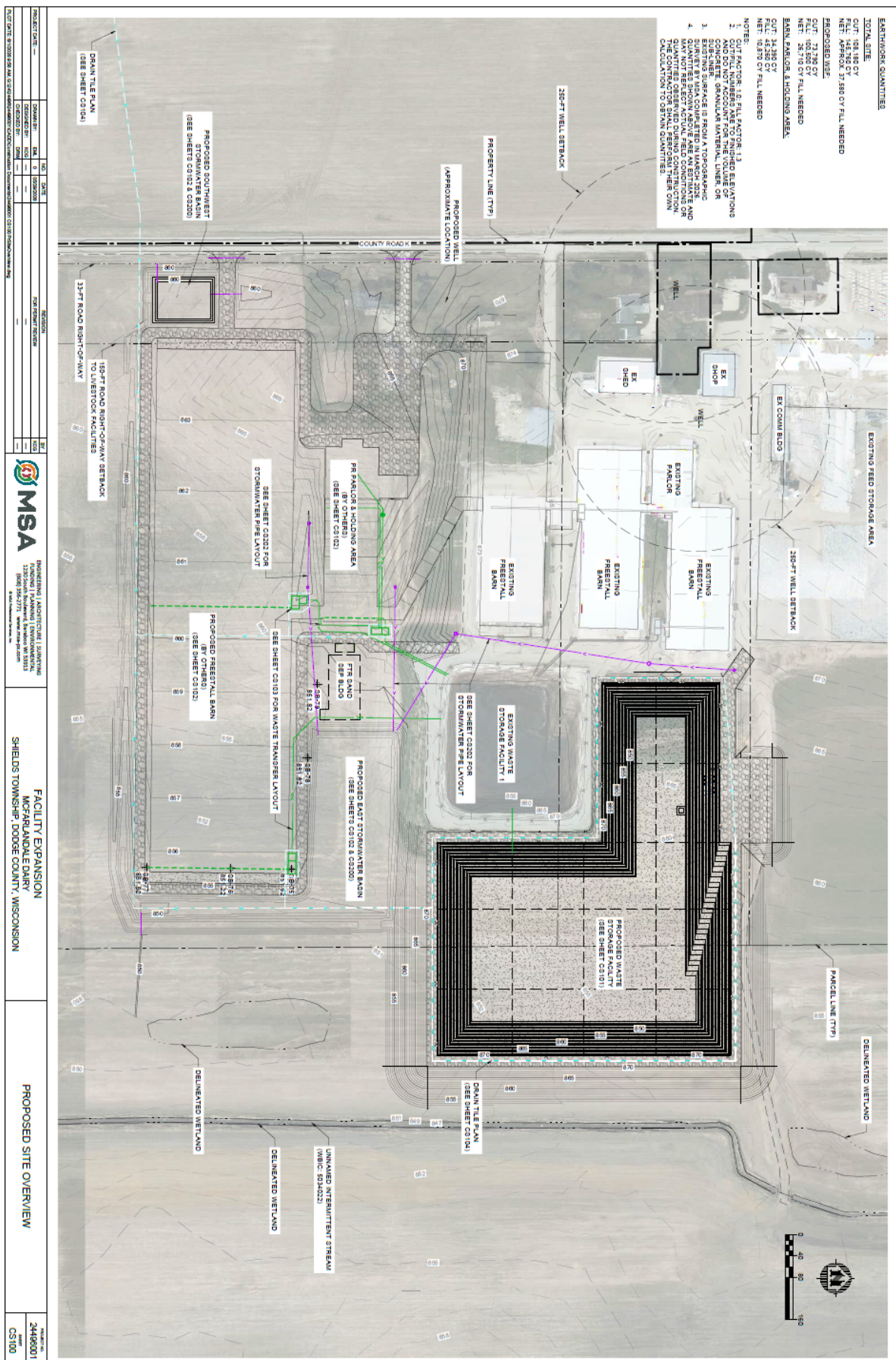
Grower: McFarlandale Dairy, LLC
Site: Dairy Facility
County: Dodge
Township: Shields
Section: 36

Proposed expansions in red (not to scale)



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Map 2. Production site map and with the waste storage facilities named corresponding to the sample points.
 Source: McFarlandale Dairy LLC nutrient management plan, Buss 2026.



Map 3. Engineering production site map for the proposed expansion and waste storage facility. Source: WDNR Project R-2026-0115 prepared by MSA submitted to the department on June 1, 2026.

SITE OBSERVATIONS

Feedlot Runoff

McFarlandale Dairy has no outdoor feedlots

Outdoor Calf Hutch Areas

McFarlandale Dairy has constructed four calf barns and no longer uses calf hutches. All calves are housed under roof. The former calf hutch area has been abandoned and redeveloped.

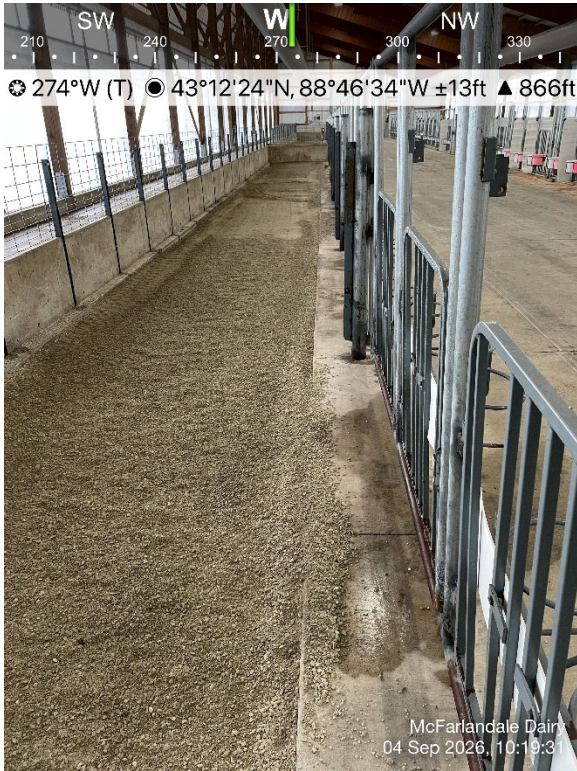


Photo #	4520
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Inside one of the calf barns on the northeast side of the production area. Calves are housed in door on a constructed gravel pad and bedded saw dust.

Waste Storage Facilities

Current or past indicators of discharges from the liquid and solid storage facilities **were** not observed during the inspection.

(includes headland stacking sites).

Solid and liquid waste storage facilities **are** well-maintained, in good repair, and in compliance with permit requirements.

Liquid waste storage facilities **have** permanent markers installed.

McFarlandale Dairy will utilize three liquid waste storage facilities to store manure and process wastewater generated at the facility until it can be land applied. WSF 1 is a liquid tight waste storage facility that was constructed in 2017. WSF 1 has a usable capacity of approximately 6,947,397 gallons and accepts manure and process wastewater from the freestall barns and milking parlor through a series of reception tanks, that collect waste via central manure auger channels from manual scraped barns that are bedded with sand. WSF 1 was last evaluated in 2021 and met permit requirements. Permanent markers were present and will be updated during the permit term to account for the new construction of WSF 2 and free stall barn expansion. Fencing was present at the time of the inspection. The storage appeared to be in good condition. With the expansion WSF 1 will become the first stage waste storage facility and act as a settling basin. The access ramp is used to store solid manure when land application and headland stack is not accessible.

WSF 2 at McFarlandale Dairy will be a liquid-tight concrete irregular L shaped liquid waste storage facility located north and east of WSF 1. WSF 2 will have a usable capacity of approximately 37,077,756 gallons and is currently being constructed, plans were approved on July 28, 2026 (R-2026-0115). WSF 2 will accept manure and process wastewater from WSF 1. Permanent markers will be installed once construction is

completed along with perimeter fencing. Construction had started at the time of the inspection; weather had stopped construction during the inspection. Concrete was estimated to be poured in September 2026. A perimeter drain tile is proposed to drain a perched water table and drain to the west. Struck was going to work with department engineers to see if a lift station to the east would be permittable.

WSF PWW at McFarlandale Dairy is a liquid-tight concrete liquid waste storage facility located north of the feed storage area (FSA). WSF PWW has a usable capacity of approximately 5,012,188 gallons and was constructed in 2024 with plan approval (R-2024-0079). WSF PWW process wastewater and leachate from the feed storage area and currently accepts manure from WSF 1 that is manually pumped via overland hose. Permanent markers were present on the south side of the storage facility. Fencing was present at the time of the inspection. The concrete liner appeared to be in good condition, with no visual signs of cracking or degradation. The storage is currently used to maintain 180 days of liquid manure storage. With the construction of WSF 2 this storage will only be used for process wastewater. This storage could still be used for emergency manure storage.

For the reissuance the sample point names will be changed to align with the farms proposed use of the waste storage. It will also reflect the facility upgrades that have occurred during the first permit term. Old WSF 1 (sample point 001) and sample point 005 will be removed, they have been abandoned and replaced with WSF PWW (sample point 012) with plan set R-2024-0079. Sample points 003 and 004 have been removed and the structures have been included with sample point 002. Sample point 002 will be renamed WSF 1 as it will act as the settling basin or first stage collecting waste from the reception tanks associated with the freestall barns and parlors. The waste storage currently under construction will become WSF 2 (sample point 011). *See map above.*

SW

210 240 270 300 330

NW

270°W (T) 43°12'12"N, 88°46'23"W ±9ft ▲ 869ft



McFarlandale Dairy
04 Sep 2026, 10:28:35

Photo #	4524
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Facing west along the south end of WSF 1.



Photo #	4526
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Facing north along the west of WSF 1, WSF 2 under construction north of WSF 1.



Photo #	4528
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Facing north along the western edge of WSF 2. Clay liner being prepared for concrete.



Photo #	4530
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Facing north, left is the northwest corner of WSF 1, WSF 2 is on the right and background of photo.

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

Current or past indicators of discharges from process wastewater sources (milking center, wash water, etc.) were not observed during the inspection.

Process wastewater generated in the milking parlors at McFarlandale Dairy is collected in reception tanks at the back end of the existing and proposed parlor and is comingled with the manure transfer system in the adjacent freestall barn transfer channels, where it is transferred to WSF 1, overflowing to WSF 2, until it can be land applied.

Feed Storage Area (FSA) Runoff

Current or past indicators of discharges from feed storage areas and associated process wastewater (leachate, runoff) were not observed during the inspection.

Feed storage areas and runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

McFarlandale Dairy utilizes one feed storage area located on the north side of the production site. The feed storage area is an asphalt feed pad that is approximately 5.8 acres in size. The FSA was upgraded in 2022 (R-2022-0012) and 2024 (R-2024-0079). McFarlandale Dairy stores corn silage and haylage in piles covered in plastic. All runoff is collected from the feed storage area. Runoff from the feed storage area flows north to WSF PWW where it enters the storage directly or through manholes and underground pipe. During the inspection runoff was observed entering WSF PWW via surface and outlet pipes, no runoff was observed leaving the FSA. The floor of the FSA appeared to be in good condition.



Photo #	4498
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Facing south down the center of the feed storage area. WSF PWW behind the photographer. Rain water and leachate observed flowing to collection.



Photo #	4500
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Surface flow entering WSF PWW on the north side of the feed storage area.

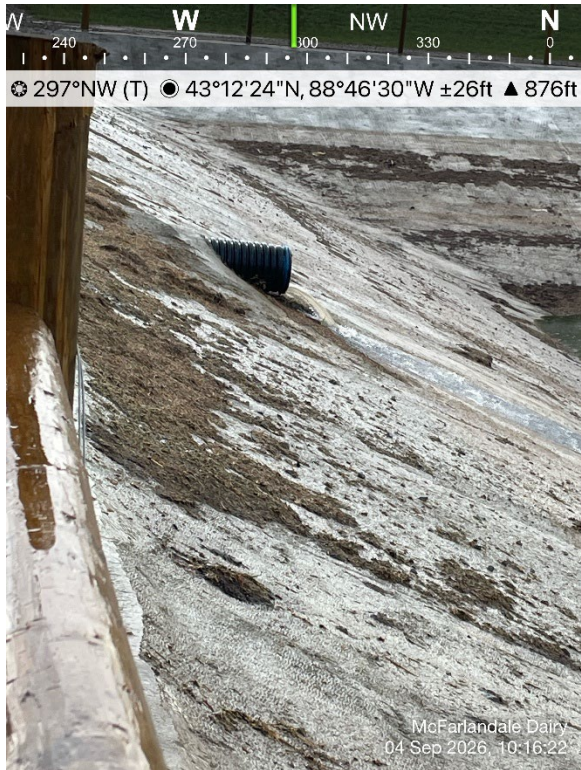


Photo #	4510
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Facing west along the southern end of WSF PWW at one of the drain pipes for the runoff control collection manholes.

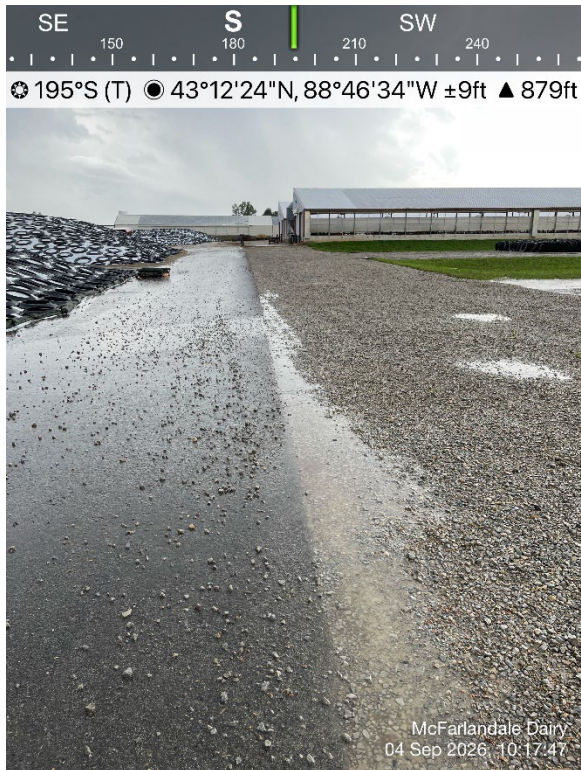


Photo #	4514
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Facing south along the west end of the feed storage area, right of photo is former calf hutch area.



Photo #	4516
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Facing east along the north end of the feed storage area and south end of WSF PWW

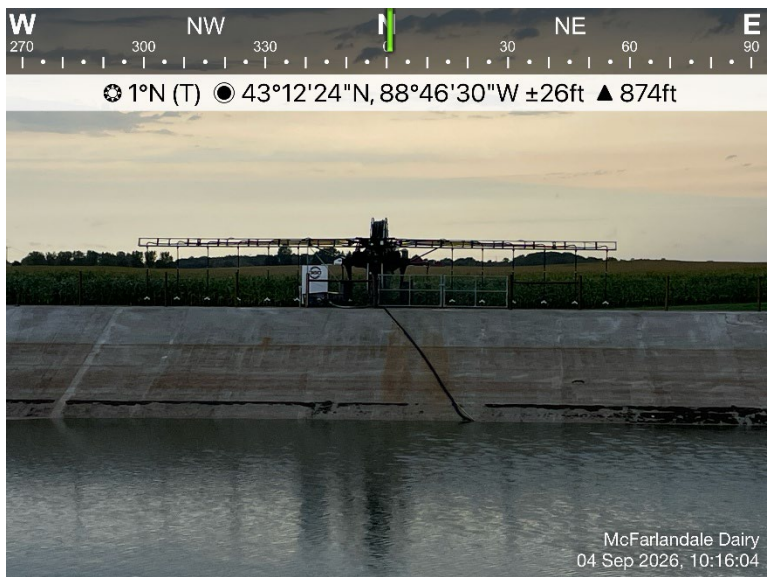


Photo #	4508
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Rain 360 located on the north side of WSF PWW.

Animal Mortality Disposal

Current or past indicators of discharges from animal mortalities **were not** observed during the inspection. Records of animal mortality management and disposal are / are not kept by the permittee in accordance with s. NR 243.19 and were/were not provided during the inspection.

McFarlandale Dairy utilizes a rendering company mortality management. The company is called to collect mortalities when they occur, and pickup usually occurs on the same day.

Ancillary Service Areas

Preventative maintenance actions and visual inspections are occurring to minimize pollutant discharges from ancillary service and storage areas (i.e. storm water conveyance systems, driveways, etc.).

Note: Unauthorized discharges of pollutants from the ancillary service and storage areas can only be alleged if water samples are collected and demonstrate that pollutant levels exceed applicable groundwater and surface water quality standards.

No discharges of manure or process wastewater pollutants were observed from the stormwater diversions. McFarlandale Dairy does not utilize any CAFO outdoor vegetated areas.



Photo #	4534
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck
Description: Stormwater retention pond located on the south side of WSF 2.	

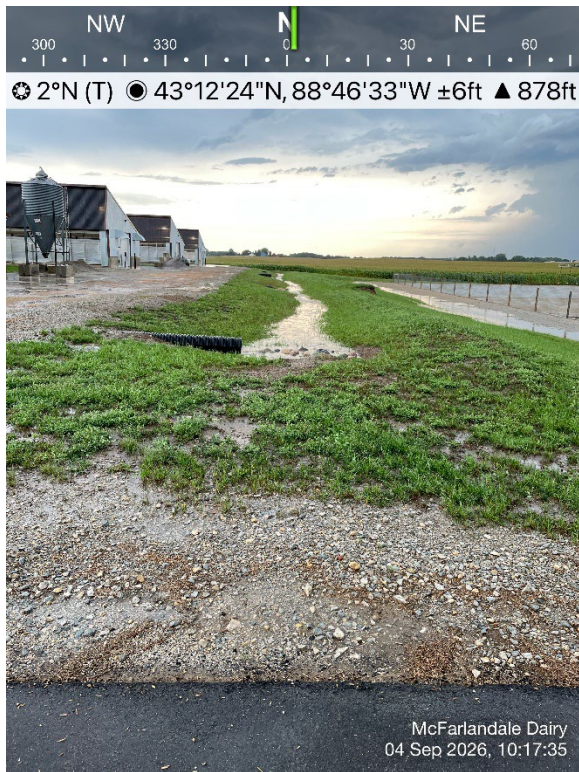


Photo #	4511
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Stormwater path on the east side of the calf barns west of WSF PWW.

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.

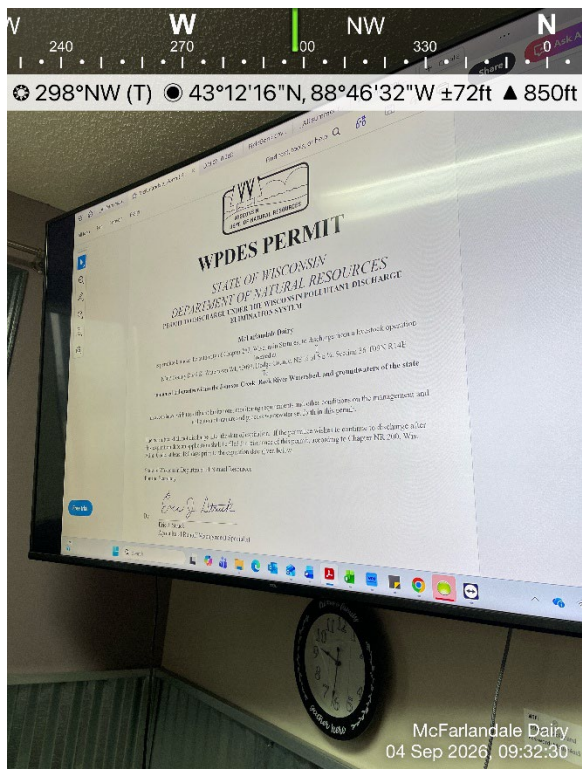


Photo #	4494
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Electronic copy of the current WPDES Permit

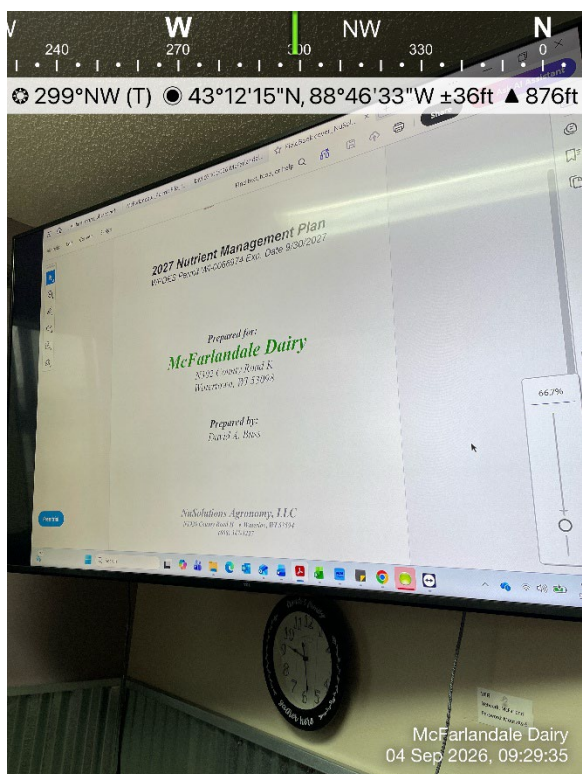


Photo #	4482
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Electronic copy of the McFarlandales Nutrient Management Plan.

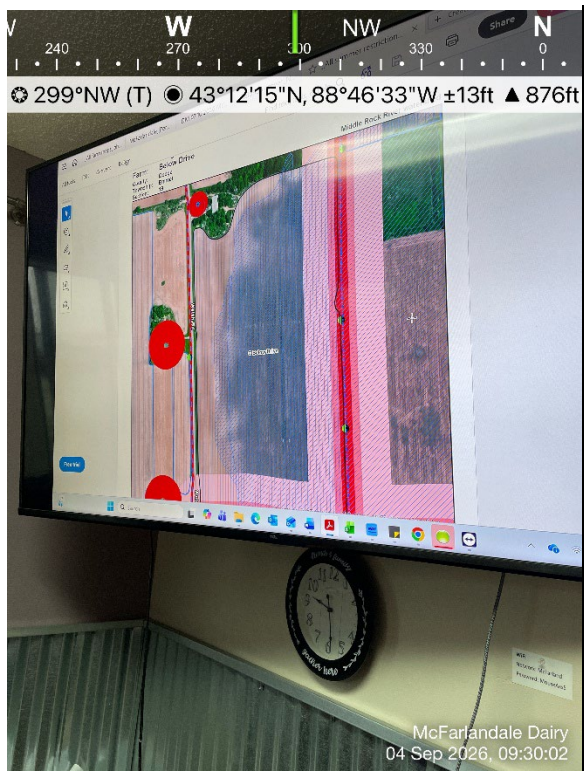


Photo #	4484
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Electronic copy of the farm's restriction maps used for spreading.
Copies given to the manure applicators prior to land application.

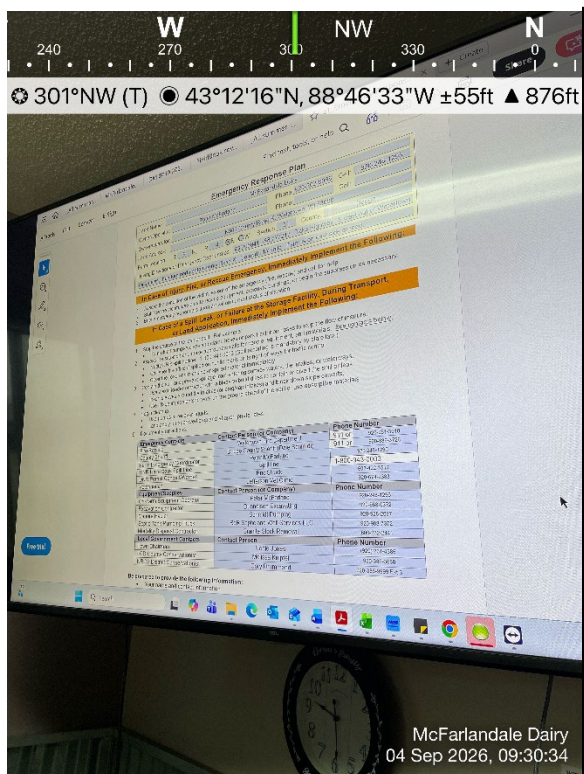


Photo #	4486
Date/Time:	September 4, 2026
Location	McFarlandale Dairy
Photo taken by:	Struck

Description: Electronic copy of the emergency response plan, emergency numbers posted around production site.

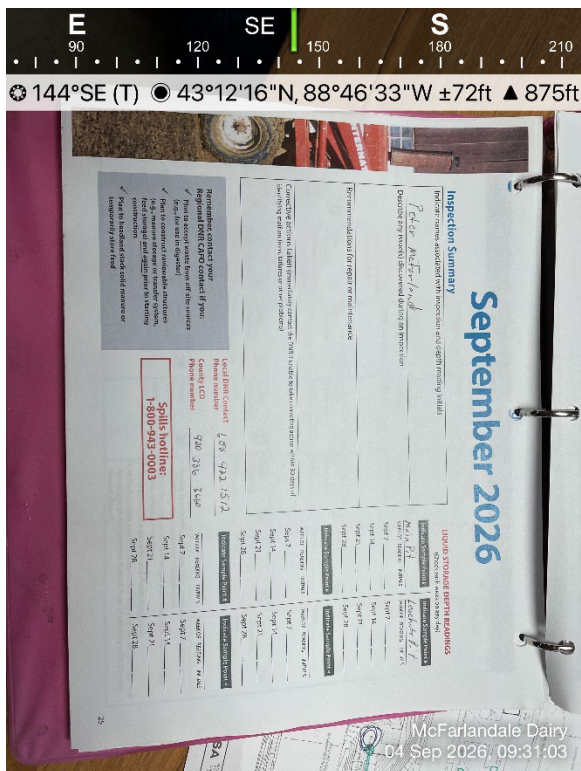


Photo #	4492
Date/Time:	September 4, 2026
Location	McFarland Dairy
Photo taken by:	Struck

Description: Binder holding the CAFO calendar used to implement the farms monitoring and inspection program. Managed by Peter McFarland.

SUMMARY

Areas of Concern

- No areas of concern were identified at the time of the inspection.

Permit Violations

- No permit violations were observed during the inspection.

Require Actions

- No immediate actions were identified during the inspection.
- Add additional land via substantial revisions to accommodate the proposed expansion during the permit term

Items for Next Permit Term

- Finish construction and post construction of WSF 2 and transfers associated with the expansion.
- Update permanent markers in all storages to reflect the change of use and expansion.
- Add additional land via substantial revisions to accommodate the proposed expansion during the permit term



August 11th, 2026

Dodge County
Approval

Rob Bender
McFarlandale Dairy
N302 County Road K
Watertown, WI 53098

SUBJECT: Conditional Approval of McFarlandale Dairy Nutrient Management Plan, WPDES
Permit No. 0066974-02-0

Dear Rob Bender:

After completing a review of McFarlandale Dairy 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 McFarlandale Dairy 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 2,235 animal units (1,500 milking & dry cows, 130 heifers, and 160 calves). A planned herd size of 7,013 animal units (4,800 milking & dry cows, 230 heifers, and 400 calves) by 2031.
2. Manure generation and spreading records indicate your herd will annually generate approximately 23,489,560 gallons of manure and process wastewater and 2,279 tons of solid manure in the first year of the permit term. Once full expansion has been reached in it is estimated the herd will generate 63,194,708 gallons of manure and process wastewater and 2,666 tons of solid manure by 2031.
3. The use of application restriction options 1, 2 & 5 within surface water quality management areas.
4. The use of phosphorus delivery method P Index.
5. That McFarlandale Dairy currently has 4,654 acres (1,019 owned and 3,635 controlled through contracts, rental agreements or leases, or under manure agreements) of which 4,522 are spreadable acres.

NOTE: McFarlandale Dairy does not currently have adequate land base in their Nutrient Management Plan to account for the planned expansion numbers starting in 2029. McFarlandale Dairy cannot expand to this animal unit number until additional land is added to the NMP.

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 McFarlandale Dairy 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:	Other Permittee Field ID:	DNR #:
Spende	UNITED LIQUID WASTE RECYCLING, INC.	MWZ	1	27200
W K1 M	UNITED LIQUID WASTE RECYCLING, INC.	MSW	12	33478
W L2 B	UNITED LIQUID WASTE RECYCLING, INC.	MSW	1	92623
W L3 A	UNITED LIQUID WASTE RECYCLING, INC.	MSW	3	45158
W L3 A	UNITED LIQUID WASTE RECYCLING, INC.	MSW	4	45159
W L3 A	UNITED LIQUID WASTE RECYCLING, INC.	MSW	6	110621
W L4 M	UNITED LIQUID WASTE RECYCLING, INC.	MSW	5	92625
W L4 M	UNITED LIQUID WASTE RECYCLING, INC.	MSW	7	110622
W L4 M	UNITED LIQUID WASTE RECYCLING, INC.	MSW	8	110623
W L4 M	UNITED LIQUID WASTE RECYCLING, INC.	MSW	9	92626
W M1 A	UNITED LIQUID WASTE RECYCLING, INC.	MSW	11	48457
W M2 A	UNITED LIQUID WASTE RECYCLING, INC.	MSW	10	48455
W Wo1	UNITED LIQUID WASTE RECYCLING, INC.	MSW	14	92611

W Wo3	UNITED LIQUID WASTE RECYCLING, INC.	MSW	13	48453
WP1	UNITED LIQUID WASTE RECYCLING, INC.	MSW	18	111938

Prior to any manure applications on these fields McFarlandale Dairy 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 McFarlandale Dairy 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: McFarlandale Dairy 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:
- 06a (>200 ppm P)
 - M4 (>200 ppm P)

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

4. If existing fields yield a soil test results equal to or greater than 200 ppm P, those fields would be prohibited from receiving manure or process wastewater applications, unless you obtain Department approval in accordance with NR 243.14(5)(b)2., Wis. Adm. Code.
5. All liquid manure samples collected may be analyzed, at a minimum, for percent dry matter, total nitrogen, percent $\text{NH}_4\text{-N}$, percent $\text{NO}_3\text{-N}$, phosphorus, potassium, and sulfur.
6. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium (NH_4^+) is greater than 75% of the total N, MCFARLANDALE DAIRY 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. McFarlandale Dairy shall record daily manure applications by using form 'Daily Spreading Log for Manure Applicators'. These forms shall be retained at the farm and provided to the department upon request.
8. McFarlandale Dairy 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:

Figure 8 Potential fields for winter spreading of solid manure and winter spreading of liquid or slurry manure

Grower	Farm	Field	Priority ranking by		Grower	Farm	Field	Priority ranking by		Grower	Farm	Field	Priority ranking by	
			Winter spreadable	average PI				Winter spreadable	average PI				Winter spreadable	average PI
Coughlin	North Barn	C North Barn	50.5	2	McFarland	East	24a	26.6	1	T & R Farms	Home	P HOM28-29	12.1	2
Coughlin	Q and K	C Q and K	22.9	4	McFarland	Farm & Fleet	FF	58.4	1	T & R Farms	South Forty	P SOU02	7.3	1
Coughlin	Readys	C Readys	13.9	2	McFarland	Herbert Bolz - South	HB1	13.9	1	T & R Farms	South Forty	P SOU03	5.4	0
Coughlin	South of Farm	C SOF3	41.9	0	McFarland	Herbert Bolz - South	HB2	17.1	1	T & R Farms	Tufts	P TUF02	6.1	1
Coughlin	Strips	C Strips	18.7	2	McFarland	Hwy19 South	S1	6.2	1	T & R Farms	Tufts	P TUF03	4.2	1
May	May	M2	16	1	McFarland	Hwy19 South	S2	52.9	2	T & R Farms	Tufts	P TUF04-5	11.2	1
McFarland	Bender	B1	6	1	McFarland	North	Hoppe	15.4	1	Walter	Jensen Moll	W JM1 M	26.4	3
McFarland	Central	04	19.2	1	McFarland	North	N1	2.7	1	Walter	Kube	W K1 M	28.2	3
McFarland	Central	05	15.5	1	McFarland	North	Spende	2	1	Walter	Meicher	W M1 A	30.8	1
McFarland	Central	06	21.2	1	T & R Farms	Borchardt	P BOR02	14.1	1	Walter	Meicher	W M2 A	12.3	1
McFarland	Central	12	74	1	T & R Farms	Colosky	P COL01	10.2	1	Walter	Suhr	W Suhr M	55.5	0
McFarland	Central	16	11.5	1	T & R Farms	Home	P HOM01	10.2	2	Walter	Thompson	W TH2 B	18.6	2
McFarland	Central	WP1	86.8	1	T & R Farms	Home	P HOM02	19.2	1	Walter	Woltz	W Wo1	26.6	4
McFarland	Central	Y4N	23.4	2	T & R Farms	Home	P HOM04	16.3	1	Walter	Woltz	W Wo3	16	2
Total available winter spreadable acres			947.4											

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. The farm has chosen to forego this practice for the current time. If sites are ever needed in future they can be emailed to the department for separate approval at any time.

MANURE & PROCESS WASTEWATER IRRIGATION

15. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

16. 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.
17. 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,

A handwritten signature in black ink that reads "Ashley Scheel". The signature is written in a cursive, flowing style.

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

CC:

Eric Struck, WDNR Agricultural Runoff Specialist (eric.struck@wisconsin.gov)
Laura Bub, WDNR Watershed Field Supervisor (laura.bub@wisconsin.gov)
Joe Baeten, WDNR Agricultural Runoff Section Manager (joseph.baeten@wisconsin.gov)
Aaron O'Rourke, WDNR Nutrient Management Program Coordinator (aaron.orourke@wisconsin.gov)
Falon French, WDNR Intake Specialist (falon.french@wisconsin.gov)
Rob Davis, WDNR CAFO Engineer (robert.davis@wisconsin.gov)
Melissa Knipfel, Dodge County (mknipfel@co.dodge.wi.us)
Patricia Cicero, Jefferson County (patriciac@jeffersoncountyiwi.gov)
Dave Buss, NuSolutions Agronomy, LLC (dbuss@nusolutionsag.com)
File



July 28, 2026

FILE REF: R-2026-0115
WPDES Permit #: WI-0066974

Robb Bender
McFarlandale Dairy
N302 County Road K
Watertown, WI 53098

Subject: Conditional Approval of Plans & Specifications for a Proposed Waste Storage Facility 2 and Waste Transfer System at McFarlandale Dairy in T09N, R14E, Section 36, Shields Township, Dodge County

Dear Mr. Bender:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has reviewed and conditionally approves the above referenced plans and specifications, submitted under certification by Kaesey Glass Dillman, P.E., MSA Professional Services and received on June 1, 2026 with a complete date of July 8, 2026. The review was conducted in accordance with s. 281.41, Wis. Stats., chs. NR 151 and NR 243, Wis. Adm. Code, and applicable NRCS Standards. The attached engineering report describes the project, lists standards that apply and provides compliance analysis. Questions may be directed to the assigned regional staff or the review engineer Rob Davis (contact information is at the end of this letter).

Proposed Project: The proposed project includes the following facilities that are reviewable under s. NR 243.15, Wis. Adm. Code: Proposed Waste Storage Facility 2 and Waste Transfer System.

Conditions of Approval: The plans and specifications for project number R-2026-0115 are hereby approved and subject to chs. NR 151 and NR 243, Wis. Adm. Code, and the conditions listed below:

1. **Revisions:** If revisions are made to the approved plans and specifications, revised plans and specifications shall be submitted for approval modification, in accordance with ss. NR 108.03 and NR 108.04, Wis. Adm. Code, and s. 281.41(1)(c), Wis. Stats. Submit revised plans and specifications via the Department's e-Permitting System. **Note:** This includes revisions for local permitting. If a formal approval modification may not be warranted, contact the review engineer to confirm.
2. **Approval Period:** In accordance with ss. NR 243.15(1)(a)1., and NR 108.04(2)d., Wis. Adm. Code, if construction is not commenced within 2 years from the approval date, the approval is void, and a new approval must be obtained prior to commencing construction.
3. **Notification:** Prior to construction and when construction is complete, notify the Department's regional contact and county contact provided a copy of the approval (contact information is at the end of this letter).
4. **Inspection:** During the construction of critical components, inspection shall be performed by a Wisconsin registered professional engineer or other qualified third party (excludes the owner and construction contractor and their employees).
5. **Post-Construction Documentation:** In accordance with the permit, a post-construction report must be submitted to the DNR's e-Permitting website (<http://dnr.wi.gov/permits/water>) within 60 days of completing construction. The report must include documentation specified by s. NR 243.15(10), Wis. Adm. Code.

Limitation of Approval: The Department reserves the right to order changes or additions should conditions arise making this necessary. This approval is not to be construed as a determination on the issuance of a Wisconsin Pollutant Discharge Elimination System Permit or opinion as to the ability of the

proposed system to comply with effluent limitations in such a permit, approval of an Environmental Impact Statement that may be prepared, or approval for any activities requiring a permit under chs. 30 or 31, Wis. Stats. Where necessary, plans and specifications should be submitted to the Department of Safety and Professional Services or other state or local agencies to ensure conformance with applicable codes or regulations of such agencies.

Permit Implications: This letter provides authorization to commence construction of the facilities approved above. However, if the approved facilities require the addition of a sample point via a WPDES permit modification (such as for any new runoff control structures, feed and other raw materials storage, manure storage facilities, manure treatment systems or other structures or systems associated with the storage, containment, treatment or handling of manure or process wastewater), the permittee may not operate the facility until this permit has been modified or reissued to include a corresponding sampling point for the new facility.

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

NOTICE OF APPEAL RIGHTS

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

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

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
For the Secretary



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

Enclosure: Wisconsin DNR Engineering Report

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WISCONSIN DEPARTMENT OF NATURAL RESOURCES ENGINEERING REPORT**GENERAL INFORMATION****Farm Name:** McFarlandale Dairy**WPDES Permit#:** WI-0066974**Location Address:** N302 County Road K, Watertown**DNR Project #:** R-2026-0115**Engineering Plans Certified by:****Initial Submittal:****Revised Submittal(s):**

Kaesey Glaess Dillman, P.E.

June 1, 2026 Submit

NA

July 8, 2026 Complete

Site Assessment: Geographical features of the site include soils that are Pella silty clay loam and Elburn silt loam. The nearest stream is approximately 50 ft to the east and is intermittent in nature. A wetland delineation was performed for the site by Evergreen Consultants, signed by Chad Fradette, and dated April 28, 2026 due to the presence of wetland indicator soils on the site. The nearest wetland is approximately 50 ft to the east of the proposed construction area and was defined in the wetland delineation to mirror the intermittent stream corridor. Clean runoff will be diverted around waste handling areas to existing waterways. No karst features are known to exist within 1,000 ft of the proposed facilities or systems. No ground water supply wells are located within 250 feet of the proposed facilities or systems.

Soil investigations were performed in March and April 2026 consisting of 30 test pits in the proposed project area, which found the primary subsoils consist of silt (ML), clay (CL), and clayey sand (SC) with a fines content in the range of 35.6 to 88.0%. Bedrock was found but was deeper than required separation distance. Saturation was found, but was determined to be perched and will be drained using drain tile.

Proposed Facilities:

Waste Storage (WSF 2): The proposed design was submitted to meet NRCS 313 (10/25) and NRCS 522 (06/21) Table 2, Column A and Table 2A, Column B. The design is compliant with s. NR 243.15(3), Wis. Adm. Code. The proposed WSF 2 will be located at the east side of the production area, immediately north and east of the existing WSF 1. The proposed WSF 2 will wrap around the north and east sides of the existing WSF 1 like an 'L'. Below is a summary of what is proposed.

- The proposed WSF 2 will be irregular shaped (like an 'L') with interior top dimensions of 400 ft x 550 ft for the east side and the leg at the north will be 220 ft x 300 ft. The proposed storage will be 25.5 ft deep from bottom to top and 24.1 ft deep to the MOL. The embankment walls and floor/ramp are designed with 5 inch thick steel reinforced concrete with #4 bars at 15" O.C. and 6 inch thick steel reinforced concrete with #5 bars at 18" O.C. respectively.
- Heavy vehicle loading calculations were provided for the 6 inch ramp and floor thickness. The calculations demonstrate this thickness is adequate for a 20,000 pound axle load which is a typical payload.
- The WSF is designed as a reduced seepage concrete with waterstop structure. The proposed WSF will be placed on a 2 ft thick sub-liner that consists of soils containing a P200 of 20% or more.
- The proposed storage will have a total and maximum operating level (MOL) volume of 40,054,822 and 37,106,583 gallons respectively.
- The floor elevation will be 845.0 ft and the MOL elevation will be 869.1 ft. Interior and exterior embankment slopes will be 2.5:1 and 4:1 respectively with a berm width of 20 ft.
- The sump will be 15 ft x 15 ft with the sump being 1 ft deep and will be located along the north side. A 20 ft wide ramp will extend down the north side of the proposed storage pond with a slope of 10.1:1.
- A core trench will be installed where required, which is almost the entire perimeter of the proposed WSF.
- 6 inch diameter perforated drain tile will be installed around the perimeter of the proposed WSF via a curtain drain to drain the perched condition. The drain tile will gravity flow to the south to get around the proposed barn and then approximately 1/2 mile to the west before it can daylight via gravity flow.

Waste Transfer System: The proposed design was submitted to meet with NRCS Standard 634 (11/24). The design is compliant with s. NR 243.15(4), Wis. Adm. Code.

- **BARN AUGER CHANNELS:** There are two proposed auger channels in the proposed barn. The west half of the barn will be scraped to a cast in place auger channel in the center of the barn while the east half of the barn will be scraped to a cast in place auger channel at the east end of the barn. Manure will be augered to the wet cell of the respective reception tank. The auger channel will be 2 ft x 2 ft with 8 inch thick steel reinforced concrete walls and floor and be covered with a metal grate. The channels will be constructed liquid tight.
- **BARN RECEPTION TANKS, PUMPS, AND TRANSFER PIPES:** There will be two reception tanks in the proposed barn. One will be centered in the proposed barn and the other will be on the east end. They will align with the auger channels. Each tank will each be two-cell concrete cast-in-place reception tanks (reception tanks 2 and 3). The wet cell of each reception tank is 14 ft x 24 ft x 10 ft deep and the dry cell is 14 ft x 14 ft x 10 ft deep. The tanks will have 14 inch thick reinforced concrete walls and 12 inch thick reinforced concrete floors. The reception tanks will have 8 inch precast covers and will be housed within the barn. The dry cell will have two piston pumps to pump waste to the existing WSF. The piston pumps will be Houle Futuro piston pumps and discharge to 12 inch diameter SDR 21 pipe and will discharge over the top of the existing WSF. The system does not meet the one day of manure production calculation required in NRCS 634, however, there are multiple safeguards in place which meet the intent of this requirement and will eliminate the risk of the reception tanks overflowing which include: the pumping system is redundant as an identical, backup pump has been provided; the system is connected to a back up generator; and the Farm has the ability to scrape to the opposite auger channel. To address perched water conditions found in the soils investigation, the reception tanks will have a drain tile which will connect to the drain tile from the WSF to daylight to the west.
- **PARLOR MANHOLE:** The rotary parlor floor will gravity drain via a 6 inch diameter SDR 35 PVC pipe to one 6 ft diameter x 18 ft deep precast sanitary manhole (ASTM C 478). The manhole will house two submersible Gould sewage pumps which discharge the wastewater via separate 4 inch diameter SDR 21 PVC pipes to the flush cell of the Holding Area reception tank (reception tank 1).
- **HOLDING AREA CHANNEL AND TRANSFER PIPE:** The low-solids wastewater is used to flush the holding area and holding area channel. The collection channel on the east side of the holding area will be 2.5 ft wide x 4 ft deep x 90 ft long cast-in-place concrete channel with a 1% slope along the length of the channel for gravity flow toward the transfer pipe. The channel will have 8 inch thick steel reinforced concrete walls and floor with expansive waterstop to be liquid tight. The channel will be covered with precast slats and manure will be flushed from the holding area into the channel. The channel will be flushed and outlet via an 18 inch diameter HDPE gravity transfer pipe. The 18 inch gravity pipe will penetrate the wall of the transfer cell of the holding area tank.
- **HOLDING AREA RECEPTION TANK, PUMP, AND TRANSFER PIPE:** A two-cell reception tank (reception tank 1) is planned on the east side of the proposed holding area. This tank consists of a 12 ft x 15 ft x 10 ft deep transfer cell which receives waste directly from the holding area collection channel. The second cell will be a 12 ft x 22 ft x 10 ft deep flush cell. The liquid waste weir flows over the center holding wall into the second cell. The tank will have 12 inch thick reinforced concrete walls and a 12 inch thick reinforced concrete floor. The transfer cell will have a Houle Agi Pump that will pump waste to the existing WSF. The transfer pipe will be 6 inch diameter SDR 21 PVC pipe. The flush cell will have a Houle 8" Flush pump that will pump to the holding area channel or to flush pop ups in the holding area. The transfer pipe will be 8 inch SDR 21 PVC pipe.
- Pump and pipe calculations were provided and comply with NRCS 634.

DAYS OF AVAILABLE LIQUID WASTE STORAGE: The submitted information states that McFarlandale Dairy will have adequate days of liquid waste storage after construction of the proposed WSF 2 to accommodate the proposed animal unit expansion. The days of liquid waste storage will be formally reviewed for the permit reissuance in the standalone submittal with DNR Project Number R-2026-0123. Currently the farm uses WSF 1 and the WSF-PWW to store liquid waste. After construction

of the proposed WSF 2, the WSF-PWW will be used to store only PWW from the FSA. They will not plan to co-mingle PWW and manure after construction of WSF 2.

PURPOSE OF THIS REPORT: This report documents review of plans and specifications for each structure or practice indicated below, including findings regarding the structure or practice's compliance with applicable standards. The reviewer considered if management and site assessment were conducted, documented, and reflected in the final design, and if proper construction and related plans (operation and maintenance, inspection, erosion control if applicable) were provided, and demonstrated compliance with applicable rules standards.

DECISION RECOMMENDATION: Based on my review completed on July 27, 2026, the proposed plans and specifications meet ch. NR 243, Wis. Adm. Code, and applicable NRCS Standards. Therefore, I recommend the plans and specifications be approved.

A handwritten signature in black ink, appearing to read "Rob Davis". The signature is written in a cursive, flowing style.

Rob Davis, P.E.
Water Resources Engineer



August 3, 2026

FILE REF: R-2026-0123
WPDES Permit #: WI-0066974

Robb Bender
McFarlandale Dairy
N302 County Road K
Watertown, WI 53098

Subject: Days of Storage Review for McFarlandale Dairy in T09N, R14E, Section 36, Shields Township, Dodge County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Bender:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has completed its review of the calculation of days of storage submitted by Kaesey Glaess Dillman, P.E., MSA Professional Services on June 1, 2026 on behalf of McFarlandale Dairy.

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

Days of Available Liquid Waste Storage: The submitted information states that McFarlandale Dairy currently has 186 days of liquid waste storage and will have 287 days of liquid waste storage after the proposed animal unit expansion and the construction of the proposed WSF 2, which was approved by DNR Project R-2026-0115 on July 28, 2026, based on the volumes listed in the tables 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 2,235 and the proposed number of animal units is 7,013. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values and based upon a collection period of 365 days. Full collection of leachate and contaminated runoff collection for up to the 25-year, 24-hour storm event is collected from the feed storage areas. The storage facilities are named in the tables below based on what they will be named/numbered in the upcoming permit. There are some changes from the current names/numbers. The storage facility names are:

WSF 1 – this was formerly WSF 2 and was constructed in 2017. The former WSF 1 was abandoned (approved by DNR project number R-2024-0079 on June 27, 2024) so the former WSF 2 is now WSF 1. WSF 1 was reviewed as an evaluation by DNR project number R-2022-0126 and received a ‘no further actions’ letter on July 31, 2026.

WSF-PWW – this was constructed in 2025 and approved by DNR project number R-2024-0079 on June 27, 2024. Currently this storage is needed to provide 180 days of liquid waste storage, but after construction of the proposed WSF 2, it will be used for only PWW and will not be co-mingled with manure.

WSF 2 – this is the proposed ‘L’ shaped storage facility which was approved by DNR Project R-2026-0115 on July 28, 2026. It will be constructed in the very near future (construction has already started).

The leachate and contaminated runoff are currently collected in WSF-PWW and are co-mingled with manure to ensure that the facility has 180 days of liquid waste storage, as shown in the existing condition table below. After construction of the proposed WSF 2, WSF-PWW will be used for only PWW storage. The PWW will be collected and stored separately from the liquid manure and will not be included in the days of storage calculations for the proposed condition. WSF-PWW will be operated and maintained as a

long-term process wastewater storage and does not provide any days of liquid manure storage in the proposed condition, but does provide 279 days of storage for the 6,548,643 gallons of leachate and contaminated runoff. The total volume of liquids for the existing condition that is needed for the NMP includes the PWV and is 23,489,560 gallons. The total volume of liquids for the proposed condition to be used for the NMP is 63,194,708 gallons (56,646,065 gallons of manure laden waste + 6,548,643 gallons of PWV). Full collection of leachate and contaminated runoff from the feed storage area is provided in WSF-PWV for up to the 25-yr, 24-hr storm event.

Existing Conditions (2,235 AU) – 186 Days of Storage

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	Annual Gallons
Manure and Bedding:	12,257,014
Parlor Wastewater:	3,485,400
Total Feed Storage Leachate:	104,720
Total Feed Storage Runoff Collected:	5,271,346
Net Precipitation on Storage Surfaces:	2,371,080
Total Liquid Waste Stored Below the MOL:	23,489,560

Total Liquid Waste Storage Capacity (Gallons)						
Waste Storage	Total Volume from Top to Bottom	-Remaining Waste	-25-yr, 24-hr Precipitation on Storage	-25-yr, 24-hr Collected Runoff	-Freeboard Volume	Max. Operating Level (MOL) Volume
WSF 1	7,724,838	0	243,734	0	533,707	6,947,397
WSF-PWV	6,541,452	0	238,161	729,889	561,214	5,012,188
					Total MOL Volume:	11,959,858

Proposed Conditions (7,013 AU) – 287 Days of Storage

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	Annual Gallons
Manure and Bedding:	41,123,442
Parlor Wastewater:	10,165,615
Total Feed Storage Leachate:	0
Total Feed Storage Runoff Collected:	0
Net Precipitation on Storage Surfaces:	5,357,009
Total Liquid Waste Stored Below the MOL:	56,646,066

Total Liquid Waste Storage Capacity (Gallons)						
Waste Storage	Total Volume from Top to Bottom	-Remaining Waste	-25-yr, 24-hr Precipitation on Storage	-25-yr, 24-hr Collected Runoff	-Freeboard Volume	Max. Operating Level (MOL) Volume
WSF 1	7,724,838	0	243,734	0	533,707	6,947,397
WSF 2	40,576,710	0	861,664	0	2,115,413	37,599,633
					Total MOL Volume:	44,547,030

Should you have any questions, please contact Rob Davis, DNR Madison office or your Regional Agricultural Runoff 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



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STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

PUBLIC NOTICE OF AVAILABILITY OF A NUTRIENT MANAGEMENT PLAN AND INTENT TO REISSUE
A WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM (WPDES) PERMIT No. WI-0066974-02-0

Permittee: McFarlandale Dairy, LLC, N302 County Road K, Watertown, WI, 53098

Facility Where Discharge Occurs: N302 County Road K, Watertown WI, 53098; Dodge County WI, Town of Shields, NE ¼ of SE ¼ Sec. 36 T09N R14E

Receiving Water And Location: Surface water and groundwater within the Johnson Creek-Rock River Watersheds

Brief Facility Description :Mcfarlandale Dairy, LLC is an existing Concentrated Animal Feeding Operation (CAFO) located in the Township of Shields in Dodge County. Mcfarlandale Dairy is owned and operated by Mcfarland and Bender Families. Mcfarlandale Dairy has one production area located at N302 County Road K, Watertown WI, 53098. At the production site there is three waste storage facilities, one feed storage area, 2 heifer barns, four calf barns, four dairy freestall barns.

The current dairy herd size of 2,235 animal units (1,500 milking & dry cows, 130 heifers, and 160 calves). A planned herd expansion to 7,013 animal units (4,800 milking & dry cows, 230 heifers, and 400 calves) by 2031. Mcfarlandale Dairy is estimated to produce 23,489,560 gallons of manure and process wastewater and 2,279 tons of solid manure in the first year of the permit term. Once full expansion has been reached it is estimated the farm will generate 63,194,708 gallons of manure and process wastewater and 2,666 tons of solid manure by 2031.

Mcfarlandale Dairy plans to complete the construction of a new waste storage facility (R 2026-0115) in 2026 and will then have 287 days of liquid manure and process waste storage, approximately 44.5 million gallons and approximately 5 million gallons of process wastewater storage. Mcfarlandale Dairy owns and rents approximately 4,654 acres of cropland, of which 4,522 acres are available for manure application.

The Department has tentatively decided that the above specified WPDES permit should be reissued.

Permit Drafter's Name, Address, Phone and Email: Eric Struck, WDNR, 141 NW Barstow Street, Suite 180, Waukesha, WI, 53188-3789, (608) 422-1512, Eric.Struck@wisconsin.gov

Persons wishing to comment on or object to the proposed permit action, the terms of the nutrient management plan, or the application, or to request a public informational hearing may write to the Department of Natural Resources at the permit drafter's address. All comments or suggestions received no later than 30 days after the publication date of this public notice will be considered along with other information on file in making a final decision regarding the permit. Anyone providing comments in response to this public notice will receive a notification of the Department's final decision when the permit is re-issued. Where designated as a reviewable surface water discharge permit, the U.S. Environmental Protection Agency is allowed up to 90 days to submit comments or objections regarding this permit determination. If no comments are received on the proposed permit from anyone, including U.S. EPA, the permit will be re-issued as proposed.

The Department may schedule a public informational hearing if within 30 days of the public date of this notice, a request for a hearing is filed by any person. The Department shall schedule a public informational hearing if a petition requesting a hearing is received from USEPA or from 5 or more persons or if the Department determines there is significant public interest. Requests for a public informational hearing shall state the following: the name and address of the person(s) requesting the hearing; the interest in the proposed permit of the person(s) requesting the hearing; the reasons for the request; and the issues proposed to be considered at the hearing.

Information on file for this permit action, including the draft permit and fact sheet (if required), the operation's nutrient management plan and application may be inspected and copied at the permit drafter's office, Monday through Friday (except holidays), between 9:00 a.m. and 3:30 p.m. Please call the permit drafter for directions to their office location, if necessary. Information on this permit action may also be obtained by calling the permit drafter at (608) 422-1512 or by writing to the Department. Reasonable costs (15 cents per page for copies and 7 cents per page for scanning) will be charged for information in the file other than the public notice and fact sheet. Permit information is also available on the internet at: <http://dnr.wi.gov/topic/wastewater/PublicNotices.html>. Pursuant to the Americans with Disabilities Act, reasonable accommodation, including the provision of informational material in an alternative format, will be made to qualified individuals upon request.

NAME OF PUBLISHING NEWSPAPER: **Enter Name of Publishing Newspaper**

ADDRESS OF PUBLISHING NEWSPAPER: **Enter Address of Publishing Newspaper**

Date Notice Issued: **Enter Date Notice Issued**