Permit Fact Sheet

General Information

Permit Number:	WI-0065218-03-0
Permittee Name:	Fendryk Brothers Partnership
Address:	W9075 County Road P
City/State/Zip:	Crivitz WI 54114
Discharge Location:	**Main Dairy :** W9075 County P, Crivitz, WI 54114 , NW ¼ of NE ¼ Section 30 T31N R20E **Rymer Farm:** W10054 14th Road, Pound, WI 54161, SW ¼ of SW ¼ Section 23 T31N R19E
Receiving Water:	Iron Springs Creek & unnamed tributaries within the Little Peshtigo River Watershed, and groundwaters of the state
Discharge Type:	Existing

Animal Units					
	Current AU		**Proposed AU** **(Note: If all zeroes, expansions are not expected during permit term)**		
Animal Type	**Mixed**	**Individual**	**Mixed**	**Individual**	**Date of Proposed Expansion**
Dairy Calves (under 400 lbs.)	77	0	0	0	
Milking and Dry Cows	1198	1224	0	0	
Heifers (400 lbs. to 800 lbs.)	151	251	0	0	
Heifers (800 lbs. to 1200 lbs.)	216	196	0	0	
Steers or Cows (400 lbs. to market)	359	359	0	0	
Bulls (each)	1	1	0	0	
Beef Calves (under 400 lbs.)	21	0	0	0	
Sheep (each)	1	1	0	0	
Horses (each)	4	4	0	0	
Total	2028	1224	0	0	

Facility Description

Brief Facility Description: Fendryk Brothers Partnership is an existing Concentrated Animal Feeding Operation (CAFO) in Marinette County. Fendryk Brothers Partnership is owned and operated by the Fendryk family. It currently has 2,027 animal units (1,198 Milking & Dry Cows, 367 Heifers, and 98 Calves, 359 steers, 1 bull, 1 sheep & 2 horses/donkey). Fendryk Brothers Partnership is not proposing an expansion during the permit term. Fendryk Brothers Partnership is

expected to annually generate 11,911,155 gallons of manure and process wastewater and 3,565,657 gallons of feed leachate & runoff at the current animal units. Fendryk Brothers Partnership has a total of 2,737 acres available for land application of manure and process wastewater of which 2,723.8 are spreadable. Of this acreage, 775 acres are owned, and 1962 acres are controlled through contracts, rental agreements, leases, or under manure contracts.

Substantial Compliance Determination

Enforcement During Last Permit: There were no enforcement actions taken against Fendryk Brothers Partnership during the previous permit term.

After a desk top review of all annual reports, NMP updates, land app reports, compliance schedule items, and a site visit on 7/13/2023, this facility has been found to be in substantial compliance with their current permit.

Compliance determination entered by Brian Hanson, Wastewater Specialist on 4/25/2024.

Sample Point Designation For Animal Waste		
Sample Point Number	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**	
001	Sample point 001 is for an existing liquid waste storage facility (WSF #1). WSF #1 is a concrete structure located at main dairy site east of the freestall barns & south of WSF #2. This facility has a total volume of 0.96 million gallons and a maximum operating level capacity of 0.79 million gallons. This storage generally accepts manure and process wastewater from the freestall barns & parlor. The facility was constructed in 1995 & has not been evaluated since the time of construction.	
002	Sample point 002 is for an existing liquid waste storage facility (WSF #2). WSF #2 is a vertical wall Slurrystore structure located at main dairy site on the east side of the freestall barns & north of WSF #1. This facility has a total volume of 2.7 million gallons and a maximum operating level capacity of 2.5 million gallons. This storage generally accepts manure & process wastewater from WSF #1 via transfer pump. The facility was constructed in 2004 & has not been evaluated since the time of construction.	
003	Sample point 003 is for an existing liquid waste storage facility (WSF #3). WSF # is a vertical wall Slurrystore structure located at main dairy site on the west side of the freestall barns & north of the parlor. This facility has a total volume of 0.89 million gallons and a maximum operating level capacity of 0.83 million gallons. This storage generally accepts manure & process wastewater from the freestall barn or WSF #1 via transfer pump. The facility was constructed in 1980 & has not been evaluated since the time of construction.	
004	Sample point 004 is for an existing liquid waste storage facility (WSF #4). WSF #4 is a concrete lined impoundment located at the Rymer Farm east of the freestall barn & north of the outdoor lot. This facility has a total volume of 3.0 million gallons and a maximum operating level capacity of 2.5 million gallons. This storage accepts manure and process wastewater from the heifer freestall, steer barn & runoff from the outdoor lot. The facility was constructed in 2008 & has not been evaluated since the time of construction.	
005	Sample point 005 is for any miscellaneous solid manure that are directly land applied, and not stored in a waste storage facility. This includes calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
006	Sample point 006 is for visual monitoring and inspection of the existing feed storage area and associated runoff control system. The existing feed storage area is located at the main dairy on the south side of the freestall barns. The silage pad, which is on the west side of the driveway is approximately 4 acres in size and runoff from this FSA is collected and stored in WSF #5. The runoff controls for the silage pad were	

Sample Point Designation For Animal Waste		
Sample Point Number	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**	
	installed in 2022 contain a series of clean water diversions from the feed storage areas when feed is not present or exposed to precipitation. The haylage pad is approximately 1.75 acres in size and located on the east side of the driveway. Haylage is stored in bags and this FSA does not have a runoff collection system. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections will be required and shall be recorded according to monitoring program.	
008	Sample point 008 is for visual monitoring and inspection of the concrete feedlot and associated runoff control system located at the Rymer Farm. Feedlot runoff gravity flows directly into WSF #4. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	
009	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.	
011	Sample point 011 is for visual monitoring and inspection of animal outdoor vegetated areas located at the Main Dairy. The CAFO Outdoor Vegetated Area north & east of WSF #2 that surrounds a small pond. This area is approximately 4.5 acres in size. Proper operation and maintenance is required to ensure sufficient vegetative cover, as defined in s. NR 243.03 is sustained. Quarterly inspections are required and shall be recorded according to monitoring program.	
012	Sample point 012 is for manure solids removed from bottom of all liquid waste storage facilities. This includes manure-laden sand solids, manure fiber solids, etc. Representative samples shall be taken from each waste storage facility.	
013	Sample point 013 is for solid manure land applied from 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 monitoring program.	
014	Sample point 014 is for solid manure stacking pad located at the Rymer Farm. This structure consists of a concrete floor with concrete walls on 3 sides & is located on the west side of the freestall barn. This facility is internally drained to collect all runoff. This facility was constructed in 2014 and has not been evaluated since construction.	
015	Sample point 015 is for an existing liquid waste storage facility (WSF #5). WSF #5 is a concrete lined Pipping structure located at main dairy site north of the haylage pad. This facility has a total volume of 2.8 million gallons and a maximum operating level capacity of 2.1 million gallons. This storage generally accepts leachate & feedpad runoff from the silage pad. The facility was constructed in 2022 & has not been evaluated since the time of construction.	

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 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 submitted to the Department for approval.

The permittee currently has approximately 202 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 2,027 animal units (1,198 Milking & Dry Cows, 367 Heifers, and 98 Calves, 359 steers, 1 bull, 1 sheep & 2 horses/donkey), it is estimated that approximately 11,911,155 gallons of manure and process wastewater and 3,565,657 gallons of feed leachate & runoff will be produced per year. The permittee owns *approximately* 775 acres of cropland and rents about 1,962. Given the rotation commonly used by the permittee, 2724 acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

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

The permitee 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.

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.

Sample Point Number: 001- WSF #1; 002- WSF #2; 003- WSF #3; 004- WSF #4, and 015- WSF #5

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	

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

1.1.1 Changes from Previous Permit

Sample point language was updated to more accurately describe existing facilities. Sample point 015 was added to the permit to account for waste applied from a waste storage structure constructed during the previous permit term.

1.1.2 Explanation of Operation and Management Requirements

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

Sample Point Number: 005- Misc Solids; 012- WSF Solids Removal; 013- Headland Stacking Sites, and 014- Solids Pad-Rymer

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	

1.1.3 Changes from Previous Permit

Sample point language was updated to more accurately describe existing facilities. Sample Point 010 was removed from the permit. Any waste previously covered by this sample point will now be accounted for under sample point 005.

1.1.4 Explanation of Operation and Management Requirements

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

Sample Point Number: 006- Feed Storage Area; 008- Outdoor Lot - Rymer; 009- Storm Water, and 011- CAFO Outdoor Vegetated Area

1.1.5 Changes from Previous Permit

Sample point language was updated to more accurately describe existing facilities.

1.1.6 Explanation of Operation and Management Requirements

Proper operation and maintenance is required to ensure unlawful discharges to waters of the state do not occur. Weekly or quarterly inspections are required and shall be recorded according to the monitoring plan.

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Update the written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request.	08/01/2024

2.2 Monitoring & Inspection Program

Use of the department's monitoring and inspection program template is encouraged, but optional.

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 60 days of the effective date of this permit.	09/01/2024

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.	01/31/2025
Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2026
Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2027
Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2028
Submit Annual Report #5: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2029
Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed.	

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.	03/31/2025
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.	03/31/2026
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.	03/31/2027
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.	03/31/2028
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.	03/31/2029
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

2.5 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	12/31/2028

2.6 Explanation of Schedules

Emergency Response Plan, Monitoring and Inspection Program – Schedules consistent with permit requirements

Annual Reports, Nutrient Management Plan, Submit Permit Reissuance Application - Schedules consistent with permit requirements.

Special Reporting Requirements

None

Other Comments:

None

Attachments:

Plan Approval Letter(s)

- 3/14/2024 Conditional NMP Approval Letter
- 3/15/2024 Days of Storage Review Letter

7/28/2023 Compliance Inspection Report

Public Notice

Expiration Date:

6/31/2029

Justification Of Any Waivers From Permit Application Requirements

N/A

Prepared By: Brian Hanson Wastewater Specialist Date: 4/25/2024

Notice of Reissuance was published in the Eagle Herald, PO Box 77, Marinette, WI 54141-0077.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Tony Evers, Governor
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March 14th, 2024

Marinette County
Approval

John Fendryk
Fendryk Brothers Partnership
W9075 County Road P
Crivitz, WI 54114

SUBJECT: Conditional Approval of Fendryk Brothers Partnership Nutrient Management Plan, WPDES Permit No. 0065218-03-0

Dear Mr. Fendryk:

After completing a review of Fendryk Brothers Partnership 2024-2028 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 Fendryk Brothers Partnership 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 Fendryk Brothers Partnership 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 Fendryk Brothers Partnership maintain compliance with their WPDES permit and Ch. NR 243 requirements.

FINDINGS OF FACT

The Department confirms that:

1. A current primarily dairy herd size of 2,027 animal units (856 milking & dry cows, 447 heifers, 1 bull, 487 calves, 12 sheep, and 2 horse/donkey). Currently there are no planned expansions in the next permit term.
2. Manure generation and spreading records indicate your herd will annually generate approximately 11,911,155 gallons of manure and process wastewater and 2,484 tons of solid manure in the first year of the permit term. Approximately 3,565,657 gallons of feed leachate and runoff is collected and managed separately.
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 Fendryk Brothers Partnership currently has 2,736.5 acres (774.75 owned and 1,961.75 controlled through contracts, rental agreements, or leases, or under manure agreements) of which 2,723.8 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 outstanding/exceptional waters including Walker Creek, North Branch Beaver Creek, & Iron Springs Creek.
7. That no fields are tiled.
8. 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.
9. 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 2024-2028 Fendryk Brothers Partnership 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 are prohibited from receiving applications of manure or process wastewater:
   - Pond (>200 ppm P)

   If Fendryk Brothers Partnership 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.

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

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

5. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium (NH_4^+) is greater than 75% of the total N, Fendryk Brothers Partnership may use the following equation to adjust the first-year available nitrogen when applications are injected or incorporated within 1 hour:

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

6. Fendryk Brothers Partnership shall record daily manure applications by using form ‘Fendryk Manure Log’. These forms shall be retained at the farm and provided to the department upon request.

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

WINTER SPREADING

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

9. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
   - Alice
   - Alvin East
   - Alvin West
   - August by Boyd
   - August
   - Bedora
   - Boyd Rymer
   - Buss
   - Charlies Back
   - Charlies House
   - Constr-Front
   - Crater Hole
   - Emil
   - EricPeterson N
   - Eric PetersonWest
   - Falash Back
   - Falash Front
   - FalashMike
   - Finney West
   - Fltts Liesner
   - Florian West
   - Grunts
   - Hills
   - Jerome
   - Kotecki East
   - Kotecki South
   - Kotecki West
   - Les Back
   - Les Front
   - Mattrish Corner
   - Mattrish
   - Monford
   - Mosquito Island
   - Peterson South
   - Remowski North
   - Remowski South
   - Ron Rymer Hunting
   - Rose Podowski
   - Salesky Big
   - School
   - Stank East
   - Stank West
   - Tony in Woods
   - Tony New House
   - Town Hall
   - Vet North
   - Vet South
   - Vickie

10. The following field(s) are denied for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure due to insufficient spreading area:
   - Falash by House
   - Fitts House
   - Foundation
   - Jerome Deer
   - Pillath (no map)

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

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

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

HEADLAND STACKING

14. The following headland stacking sites are approved for use with greater than 32% solids only due to slopes ranging up to 6% on all sites:
   - Vicke Site
   - Les Back Site 1
   - Les Back Site 2
   - Hills Site

   All sites are subject to the following conditions:
   - Sites may not be used for more than 8 months out of the year, and not more than 1 out of every 2 years.

- Sites may be used when the ground is not frozen or snow covered, or during February and March.

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.

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

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

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

Sincerely,

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

cc: Brian Hanson, WDNR Agricultural Runoff Specialist (Brian.Hanson@Wisconsin.gov)
Joe Baeten, WDNR Watershed Field Supervisor (Brian.Hanson@Wisconsin.gov)
Christopher Clayton, WDNR Runoff Management Section Chief (Christopherr.Clayton@Wisconsin.gov)
Tyler Dix, WDNR CAFO Program Coordinator (Tyler.Dix@Wisconsin.gov)
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File

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Toll Free 1-888-936-7463
TTY Access via relay - 711

March 15, 2024

FILE REF: R-2023-0256
WPDES Permit #: WI-0065218

John Fendryk
Fendryk Brothers Partnership
W9075 County Road P
Crivitz, WI 54114

Subject: Days of Storage Review for Fendryk Brothers Partnership T31N, R20E, Section 30 in Beaver Township, Marinette County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Fendryk:

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 Eric Paulson, United Cooperative on December 15, 2023 with revisions received on March 12, 2024 on behalf of Fendryk Brothers Partnership.

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 Fendryk Brothers Partnership has **202** 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 **2,057**. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values for a collection period of 365 days. All runoff, up to the 25yr – 24hr storm, is captured from the outdoor feedlot in WSF4. Feed storage area runoff is stored separately of liquid manure and is not included below and is exempt from 180 day storage requirements according to s. NR 243.15(3)(k), Wis. Adm. Code. Fendryk Brothers Partnership is estimated to have 218 days of available storage for the **3,565,657** gallons of leachate and runoff.

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	957,440	0	47,872	0	119,680	789,888
#2	2,688,356	0	83,324	0	116,885	2,488,147
#3	886,637	0	15,191	0	38,548	832,898
#4	2,986,560	0	146,855	62,346	308,144	2,469,215
					Total MOL Vol:	6,580,148
					Days of Storage:	**202**

Liquids Collected/Stored	Annual Gallons
Manure and Bedding	9,476,143
Parlor Wastewater	922,355
Feedlot Runoff	525,760
Net Precipitation on Storage Surfaces	986,897
TOTAL:	**11,911,155**

Should you have any questions, please contact Tony Salituro, 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

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

Anthony Salituro

Tony Salituro, E.I.T.
CAFO Review Engineer
Watershed Management Program

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7/28/2023

John Fendryk
Fendryk Brothers Partnership
W9075 County Road P
Crivitz, WI 54114

WPDES Permit No. WI-0065218-02-0
Marinette County

Subject: 7/13/2023 Permit Reissuance Compliance Inspection

Dear Mr. Fendryk:

On July 13th, 2023 the Department of Natural Resources met with the representatives of Fendryk Brothers Partnership to conduct a full compliance inspection of your facility for permit reissuance. Department observations, including photographs, and a record of our conversations are included in the enclosed report.

The final pages of the report include a summary section identifying areas of concern & action items the farm should continue to monitor.

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

Sincerely,

Brian Hanson

Brian Hanson
Agricultural Runoff Management Specialist

Enc: 7/13/2023 Inspection Report

Electronic copy: Sheri Denowski - Marinette County LCD
Joe Baeten, Falon French - DNR
Eric Paulson – United Coop

CAFO Compliance Inspection Report

Inspection Date: 7/13/2023

Report Final Date: 7/28/2023

Operation Name: Fendryk Brothers Partnership

WPDES Permit #: WI-0065218-02-0

Farm Address: **Main Dairy** - W9075 County P, Crivitz, WI 54114

Rymer Farm - W10054 14th Road, Crivitz, WI 54114

On-Site Representative(s): John Fendryk, Ryan Fendryk—Owners & Operators

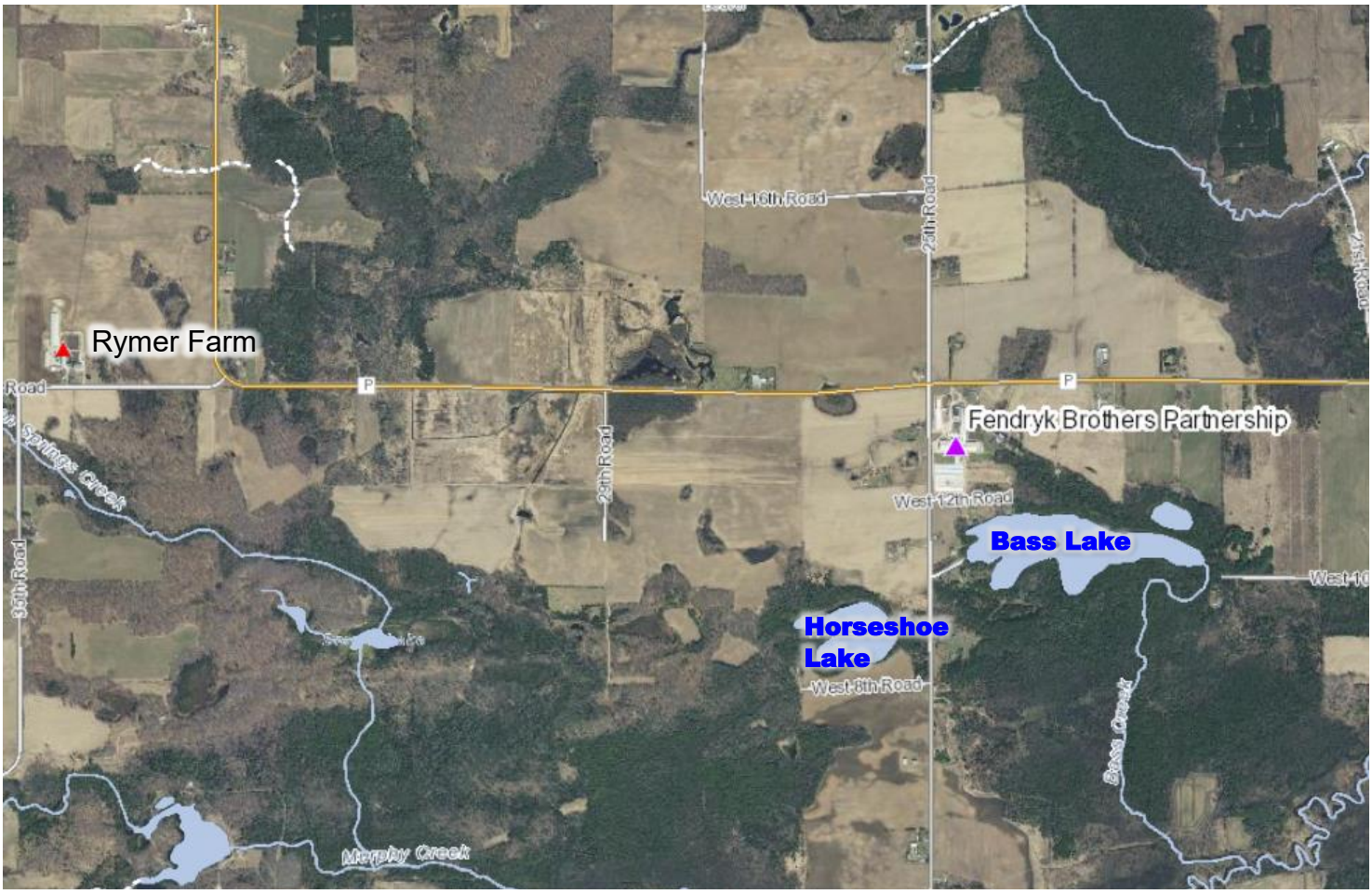
Report Author: Brian Hanson: DNR Agricultural Runoff Specialist

Other Participating Agencies: Eric Paulson, Kaitlyn Hodkiewicz—United Coop, McKenna Arnoldi— WDNR

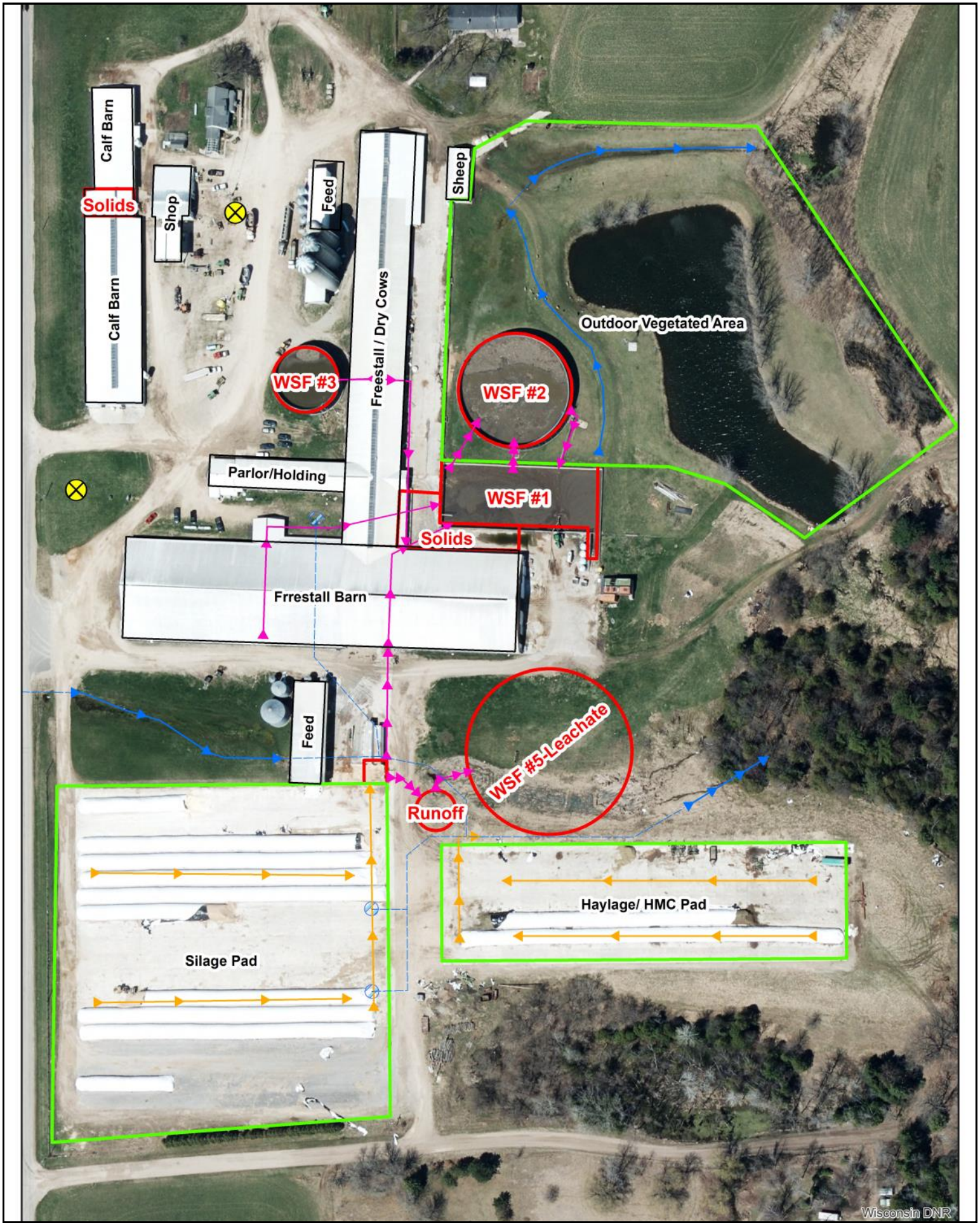
Introduction

On Thursday July 13, 2023 Hanson & Arnoldi met with Fendryk, Fendryk, Paulson & Hodkiewicz at 9:00 at Fendryk Brothers Partnership site to conduct a permit reissuance walkover inspection. Both the main production site & the Rymer Farm were inspected. A trace amount of liquid precipitation had fallen recently and the temperature was in the 70's and cloudy. No permit violations were observed, and no water samples were collected. Hanson & Arnoldi departed at approximately 10:50.

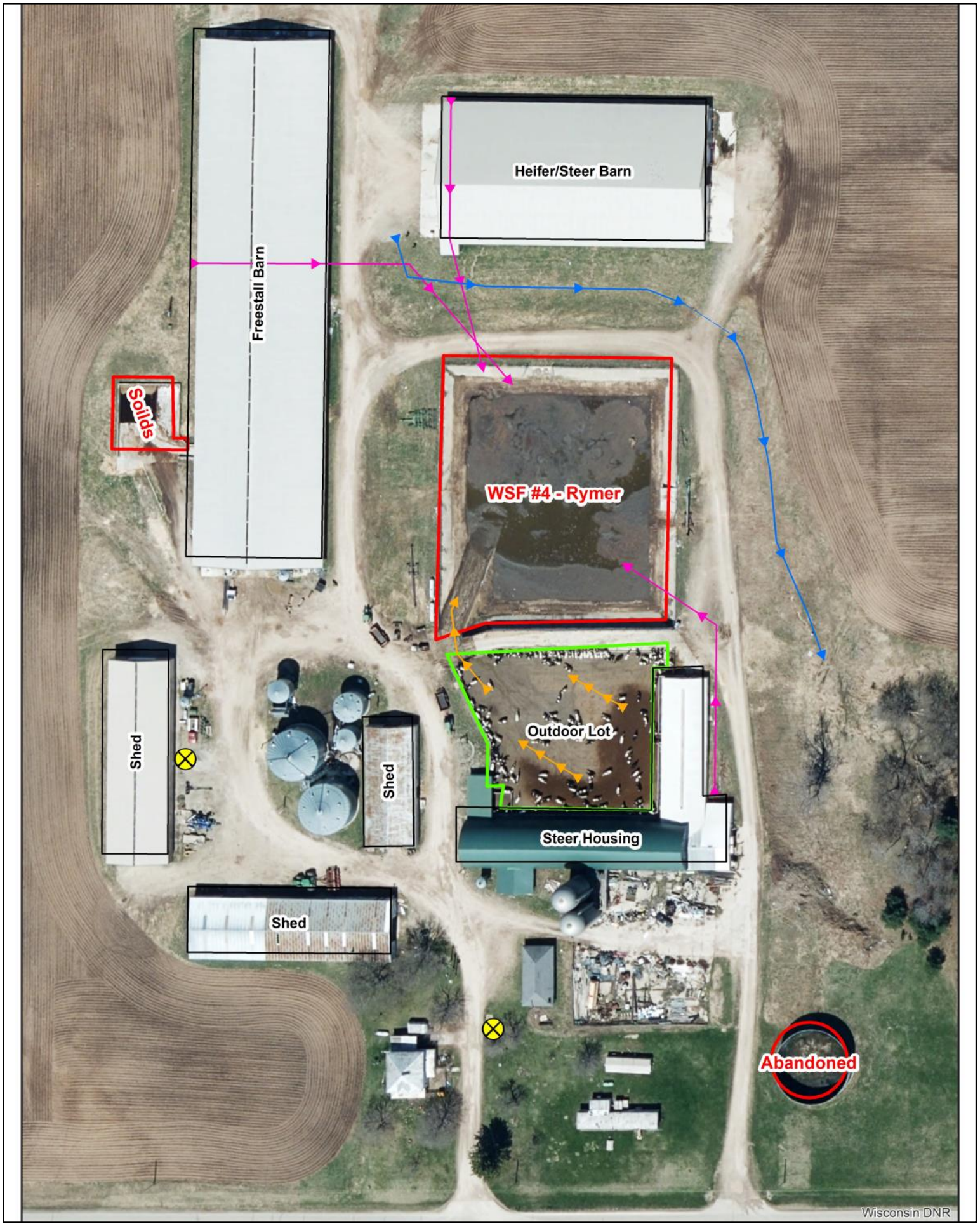
Site Overview Diagram (Main Dairy & Rymer Farm)



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



Site Overview Diagram (Rymer Farm: orange lines =potential runoff flow patterns, blue lines = stormwater flow, pink lines = waste transfer system, yellow circles indicate water supply well locations)



SITE OBSERVATIONS :

Feedlot Runoff

There is 1 feedlot runoff system located on the farm. This site is located at the Rymer farm on the south side of WSF #4. Manure & feedlot runoff from the lot flow to the northwest corner of the lot and gravity flow directly into WSF #4. 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

There are no calf hutches located on the farm at this time. All calves and youngstock are raised under roof in permanent buildings on the farm.

Waste Storage Facilities

There are 6 liquid waste storage facilities located on the farm. Four are located at the main farm and two are located at the Rymer Farm.

Manure from the freestall barns at the main dairy is collected is a series of channels and reception tanks and either gravity flows or is pumped to WSF #1. A gravity pipe connecting WSF #1 and WSF #2 allows manure in both storage to rise at an even rate until a valve in the pipe is closed. After this, manure is pumped from WSF #1 into WSF #2. Also, when the manure storages start to get full, manure from the north freestall barn can be diverted to WSF #3 via reception tank and pump. When emptying the WSF's, all manure is taken out of WSF #1. A similar set of gravity pipes and pumps is used to transfer manure back to WSF #1 for land application. Solid Manure from the freestall barns is stored along the south and west sides of WSF #1. Runoff from this area drains back to WSF #1. Solid manure from the calf barns in stored under roof in a designated area between the 2 barn. WSF #1 is a vertical wall concrete structure with an access ramp in the southeast corner. WSF #2 & WSF #3 are both above ground Slurry Store systems.

In 2022, WSF #5 was constructed and will primarily be used to collect & store runoff from the feed storage areas. This facility is a vertical walled concrete structure that was built by the Pipping company.

Manure from the 3 barns at the Rymer farm is collected and pumped to WSF #4 by a series of collection channels and pumps. WSF #4 is a concrete lined impoundment with an access ramp in the southwest corner. Solid manure from the freestall barns can also be stored in the onsite solid stacking area located on the west side of the freestall barn. Runoff from the outdoor concrete lot gravity flows directly into WSF #4 and collects 100% of the runoff. Manure is land applied directly from WSF #4. There is also a small slurry store in the southeast corner of the farmstead that has not been used for many years. Fendryk Brothers does not plan to use this facility in the future, but if they do, the farm should have the storage evaluated prior to use.

Solid and liquid waste storage structures are well-maintained, in good repair, and in compliance with permit requirements. Liquid waste storage facilities have permanent markers installed. See photo log for details.

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

Milking parlor washwater at the Main Dairy is collected and mixed with the manure from the dairy barns. Any liquid from this system is eventually stored in the WSF's

Animal Mortality Disposal

Mortalities are picked up daily as needed by Circle R.

Feed Storage Area (FSA) Runoff

All feed storage areas and runoff controls are located at the main farm. Dry feed such as haylage & high-moisture corn is stored in plastic bags on the 2 permanent feed storage pads. The silage pad is located to the west of the driveway and situated along 25th Road. This pad is a combination of Concrete & Asphalt liner and is used to store corn silage and haylage. Leachate & runoff from this pad flows to the northeast corner of the feedpad and directed into a runoff collection tank. All collected runoff then gravity flows to a newly constructed runoff collection basin which captures the 25 year storm event. The collection basin is then pumped to the newly constructed WSF #5 for long term storage. A clean water diversion system was installed in 2022 and allows runoff from the south 1/2 of the silage pad to be diverted into the storm water collection channel. There are 2 grated surface inlets along the east edge of the FSA. When the south half of the pad is clean & empty, or filled with haylage bags, these grates are open to allow runoff to be diverted to the stormwater channel. If corn silage is stored on the south 1/2, the grates are to be capped and runoff would then flow to the collection system. At the time of the inspection, corn silage was stored in bags & piles on the north side of this FSA. The south 1/2 was filled with haylage bags and the grates were open. The corn silage pile was placed right to the west edge of the FSA and a small amount of leachate was visible leaving the FSA into the gravel apron.

The haylage pad is located on the east side of the driveway and has a concrete liner. Haylage & high-moisture corn is stored in plastic bags on this pad. Runoff from this pad flows to the northwest corner of the feedpad From here the runoff flows east in a vegetated channel until it enters a larger stormwater channel where it mixes with the farmstead stormwater or silage pad diversion water. No runoff is currently collected from this pad. A small amount of waste feed and ponded runoff was visible on the haylage pad. This should be cleaned up and monitored to reduce the risk of having an unpermitted discharge.

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

The new runoff collection system has been constructed and appears to be operating as intended. However, post construction documentation for this project (R-2022-0022) has not yet been submitted to the department.

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.). At the time of the inspection, all stormwater channels were well-vegetated and other areas were free of manure & feed solids. Farm should continue to manage these areas to minimize the chance of runoff from the production area.

The farm does have 1 CAFO outdoor vegetated area as part of their operation. This area is located to the north & east of WSF #2 and includes a pond. This area is used to pasture a few sheep, llamas, and horses. At the time of the inspection, the area was well-vegetated and in good condition.

RECORDS REVIEW

The permittee has current WPDES Permit and Nutrient Management Plan onsite, is located in office.

The permittee provided complete production site inspection records that are required to be retained. Daily Hauling logs, CAFO Calendar for required inspections, and manure pit volume logs were all available for inspection.

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 with the exception of schedule 2.5 for submitting post construction report..

Photo #:	7158
Date/Time of Photo:	7/13/2023 10:35
Photo By:	Brian Hanson
Photo Location:	Rymer Farm Feedlot

Photo Description:

Standing at the northeast corner of outdoor feedlot looking southwest: View of outdoor feedlot. Arrows indicate direction of runoff flow.

Photo #:	7160
Date/Time of Photo:	7/13/2023 10:35
Photo By:	Brian Hanson
Photo Location:	Rymer Farm Feedlot

Photo Description:

Standing on north side of outdoor feedlot looking west: View of drive by feeding area for feedlot. Notice wall on right side of photo. This is the south edge of WSF #4. All runoff from lot and feeding area gravity flows directly into WSF #4

Photo #:	7098
Date/Time of Photo:	7/13/2023 9:58
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #1

Photo Description:

Standing on south side of WSF #1 looking northeast: View of northeast corner of WSF #1.

Photo #:	7100
Date/Time of Photo:	7/13/2023 9:58
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #1

Photo Description:

Standing on the south side of WSF #1 looking northwest: View of center section of WSF #1.

Photo #:	7101
Date/Time of Photo:	7/13/2023 9:58
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #1

Photo Description:

Standing at southeast corner of WSF #1 looking southwest: View of concrete access ramp in southeast corner of WSF #1.

Photo #:	7105
Date/Time of Photo:	7/13/2023 9:58
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #1

Photo Description:

Standing on south side of WSF #1 looking west: View of concrete slab on south side of WSF #1. Part of this area used for solid manure stacking. Runoff flows directly into WSF #1.

Photo #:	7118
Date/Time of Photo:	7/13/2023 10:01
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #1

Photo Description:

Standing on west side of WSF #1 looking east: View of north wall of WSF #1.

Photo #:	7117
Date/Time of Photo:	7/13/2023 10:01
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #1

Photo Description:

Standing on the west side of WSF #1 looking north: View of northwest corner of WSF #1. Permanent markers highlighted.

Photo #:	7099
Date/Time of Photo:	7/13/2023 9:58
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #2

Photo Description:

Standing on south side of WSF #1 looking north: View of WSF #2 in relation to WSF #1. Notice transfer pump & pipe on east side of WSF #2. Pump used to transfer waste from WSF #2 to WSF #1 prior to land application.

Photo #:	7121
Date/Time of Photo:	7/13/2023 10:01
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #2

Photo Description:

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

Photo #:	7131
Date/Time of Photo:	7/13/2023 10:03
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #2

Photo Description:

Standing north & west of WSF #2: View of secondary containment area on north side of WSF #2. Culvert through containment berm (near sheep in picture) has gate valve that can be closed in case of WSF #2 failure.

Photo #:	7029
Date/Time of Photo:	7/13/2023 9:32
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #3

Photo Description:

Standing on west side of WSF #3 looking southeast: View of west side of WSF #3.

Photo #:	7032
Date/Time of Photo:	7/13/2023 09:32
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #3

Photo Description:

Standing at southwest corner of WSF #3 looking east: View of south side of WSF #3.

Photo #:	7147
Date/Time of Photo:	7/13/2023 10:32
Photo By:	Brian Hanson
Photo Location:	Rymer Farm WSF #4

Photo Description:

Standing at northwest corner of WSF #4 looking south: View of west edge of WSF #4. Notice access ramp in far corner.

Photo #:	7149
Date/Time of Photo:	7/13/2023 10:32
Photo By:	Brian Hanson
Photo Location:	Rymer Farm WSF #4

Photo Description:

Standing at northwest corner of WSF #4 looking southeast: View of northwest corner of WSF #4.

Photo #:	7150
Date/Time of Photo:	7/13/2023 10:33
Photo By:	Brian Hanson
Photo Location:	Rymer Farm WSF #4

Photo Description:

Standing at northeast corner of WSF #4 looking south: View of east edge of WSF #4.

Photo #:	7164
Date/Time of Photo:	7/13/2023 10:36
Photo By:	Brian Hanson
Photo Location:	Rymer Farm WSF #4

Photo Description:

Standing at southwest corner of WSF #4:View of southwest corner of WSF #4 that is used as access ramp to remove solids from bottom of pit.

Photo #:	7085
Date/Time of Photo:	7/13/2023 09:49
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #5

Photo Description:

Standing on the east side of WSF #5 looking south: View of concrete access ramp into WSF #5.

Photo #:	7086
Date/Time of Photo:	7/13/2023 09:49
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #5

Photo Description:

Standing on the east side of WSF #5 looking northwest: View of north edge of WSF #5.

Photo #:	7093
Date/Time of Photo:	7/13/2023 09:50
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #5

Photo Description:

Standing on the east side of WSF #5 looking southwest: View of south edge of WSF #5 near bottom of access ramp.

Photo #:	7089
Date/Time of Photo:	7/13/2023 09:50
Photo By:	Brian Hanson
Photo Location:	Main Dairy WSF #5

Photo Description:

Standing on access ramp on east side of WSF #5 looking north: View of interior ramp wall. Notice permanent depth markers hanging on edge of wall.

Photo #:	7169
Date/Time of Photo:	7/13/2023 10:51
Photo By:	Brian Hanson
Photo Location:	Rymer Farm Abandoned Pit

Photo Description:

Standing on road looking northeast: View of abandoned slurry store in southeast corner of Rymer Farm. Facility has been abandoned & no longer used by farm.

Photo #:	7027
Date/Time of Photo:	7/13/2023 09:31
Photo By:	Brian Hanson
Photo Location:	Main Dairy Calf Barn

Photo Description:

Standing on the east side of calf barn looking west: View of solid stacking are in between the 2 calf barns. Area is completely roofed.

Photo #:	7111
Date/Time of Photo:	7/13/2023 10:00
Photo By:	Brian Hanson
Photo Location:	Main Dairy Solid Stacking

Photo Description:

Standing on the south side of WSF #1 looking west: View of solid stacking area at southwest corner of WSF #1. Runoff flows directly into WSF #1.

Photo #:	7113
Date/Time of Photo:	7/13/2023 10:00
Photo By:	Brian Hanson
Photo Location:	Main Dairy Solids Stacking

Photo Description:

Standing at southwest corner of WSF #1 looking north: View of solids stacking area on west side of WSF #1. Runoff flows directly into WSF #1.

Photo #:	7135
Date/Time of Photo:	7/13/2023 10:27
Photo By:	Brian Hanson
Photo Location:	Rymer Farm Solids Stacking

Photo Description:

Standing on the west side of the freestall barn looking northwest: View of west edge of solids stacking area. Are is internally drained.

Photo #:	7137
Date/Time of Photo:	7/13/2023 10:27
Photo By:	Brian Hanson
Photo Location:	Rymer Farm Solids Stacking

Photo Description:

Standing on west side of freestall barn looking north: View of east side of solids stacking area.

Photo #:	7138
Date/Time of Photo:	7/13/2023 10:27
Photo By:	Brian Hanson
Photo Location:	Rymer Farm Solids Stacking

Photo Description:

Standing on west side of freestall barn looking northeast: View of east side of stacking area where solids are pushed out of barn onto stacking area.

Photo #:	7038
Date/Time of Photo:	7/13/2023 09:35
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing on the northwest corner of silage pad looking east: View of the north edge of the silage pad.

Photo #:	7039
Date/Time of Photo:	7/13/2023 09:35
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing on the west side of FSA looking east: View of silage bags on north side of main silage pile.

Photo #:	7037
Date/Time of Photo:	7/13/2023 09:35
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing on the west side of FSA looking south: View of west edge of FSA. Notice silage pile extends right to edge of concrete slab. See further details in photo 3231 below.

Photo #:	3231
Date/Time of Photo:	7/13/2023 9:36
Photo By:	Kenna Arnoldi
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing on the west side of FSA looking east & down: Closeup view of edge of silage pile. Notice plastic extends off concrete slab onto gravel and a small volume of leachate is visible in gravel area.

Photo #:	7043
Date/Time of Photo:	7/13/2023 09:37
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing on west side of FSA looking south: View of west edge of FSA adjacent to haylage bags on the south half of the pad.

Photo #:	7044
Date/Time of Photo:	7/13/2023 09:37
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

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

Photo #:	7047
Date/Time of Photo:	7/13/2023 09:40
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing at southeast corner of FSA looking north: View of east edge of FSA used as runoff collection channel. Arrows indicate direction of flow.

Photo #:	7048
Date/Time of Photo:	7/13/2023 09:40
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing on the east side of FSA looking north: View of runoff collection inlet along east side of FSA. There are 2 of these inlet that flow to stormwater channel east of WSF #5. Grates are normally open when haylage bags are utilized on south 1/2 of FSA. Need to be capped if corn silage is present.

Photo #:	7051
Date/Time of Photo:	7/13/2023 09:41
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing on east side of FSA looking west: View of center section of FSA. Bags south of this line are haylage and flow to stormwater inlets. Corn silage pile & bags north of this line flow to runoff collection system.

Photo #:	7063
Date/Time of Photo:	7/13/2023 09:44
Photo By:	Brian Hanson
Photo Location:	Main Dairy W. Feed Storage

Photo Description:

Standing at northeast corner of FSA looking southwest: View of runoff collection channel & inlet in northeast corner of FSA. Arrows indicate direction of runoff flow.

Photo #:	7058
Date/Time of Photo:	7/13/2023 09:43
Photo By:	Brian Hanson
Photo Location:	Main Dairy FSA Runoff Basin

Photo Description:

Standing on west side of WSF #5 looking west: View of runoff collection basin used to capture runoff from west FSA. Runoff gravity flows from inlet (highlighted) to this basin.

Photo #:	7068
Date/Time of Photo:	7/13/2023 09:44
Photo By:	Brian Hanson
Photo Location:	Main Dairy FSA Runoff Basin

Photo Description:

Standing on west side of WSF #5 looking east: View of runoff collection basin with WSF #5 in the background.

Photo #:	7061
Date/Time of Photo:	7/13/2023 09:43
Photo By:	Brian Hanson
Photo Location:	Main Dairy FSA Runoff Basin

Photo Description:

Standing on the west side of WSF #5 looking east: View of out pipe used to pump runoff from runoff collection basin to WSF #5 for long term storage.

Photo #:	7081
Date/Time of Photo:	7/13/2023 09:47
Photo By:	Brian Hanson
Photo Location:	Main Dairy E. Feed storage

Photo Description:

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

Photo #:	7082
Date/Time of Photo:	7/13/2023 09:47
Photo By:	Brian Hanson
Photo Location:	Main Dairy E. Feed Storage

Photo Description:

Standing on the east side of FSA looking west: View of the north edge of FSA. Notice small amounts of waste feed & ponded runoff along edge of pad.

Photo #:	7056
Date/Time of Photo:	7/13/2023 09:43
Photo By:	Brian Hanson
Photo Location:	Main Dairy E. Feed Storage

Photo Description:

Standing on the north side of FSA looking south: View of west edge of FSA used to collect runoff from FSA. Runoff from this haylage pad is not collected, but rather flows north than east with the rest of the stormwater.

Photo #:	7062
Date/Time of Photo:	7/13/2023 09:43
Photo By:	Brian Hanson
Photo Location:	Main Dairy Stormwater

Photo Description:

Standing off the northeast corner of the west FSA looking west: View of stormwater inlet located on north side of FSA runoff collection inlet. Contaminated runoff flows into left side inlet and flows to collection system. Clean stormwater flows into right side inlet and gravity flows to east side of WSF #5

Photo #:	7074
Date/Time of Photo:	7/13/2023 09:45
Photo By:	Brian Hanson
Photo Location:	Main Dairy Stormwater

Photo Description:

Standing on the east side of WSF #5 looking east': View of stormwater outlet pipe on east side of WSF #5. Farmstead stormwater & FSA diverted stormwater flow through this pipe.

Photo #:	7124
Date/Time of Photo:	7/13/2023 10:02
Photo By:	Brian Hanson
Photo Location:	Main Dairy Pasture

Photo Description:

Standing on the northwest corner of WSF #2 looking northeast: View of southern edge of CAFO Outdoor Vegetated Area.

Photo #:	7125
Date/Time of Photo:	7/13/2023 10:02
Photo By:	Brian Hanson
Photo Location:	Main Dairy Pasture

Photo Description:

Standing on the northwest corner of WSF #2 looking north: View of middle section of CAFO Outdoor Vegetated Area.

Photo #:	7129
Date/Time of Photo:	7/13/2023 10:03
Photo By:	Brian Hanson
Photo Location:	Main Dairy Pasture

Photo Description:

Standing on the north side of sheep barn looking east: View of north edge of CAFO Outdoor Vegetated Area.

Photo #:	7025
Date/Time of Photo:	7/13/2023 09:28
Photo By:	Brian Hanson
Photo Location:	Main Dairy Well Locations

Photo Description:

Standing on the east side of the shop looking southeast: View of water supply well location located underground in manhole. Identified as:

Well ID: 8DK558

Photo #:	7034
Date/Time of Photo:	7/13/2023 09:34
Photo By:	Brian Hanson
Photo Location:	Main Dairy Well Locations

Photo Description:

Standing on the west side of parlor looking west: View of waters supply well location in grassy area west of parlor & south of calf barn.

Well Id: IB342

Photo #:	7168
Date/Time of Photo:	7/13/2023 10:39
Photo By:	Brian Hanson
Photo Location:	Rymer Farm Well Locations

Photo Description:

Standing on west side of grain bins looking west: View of water supply well location near machine shed.

Well ID: SX615

Photo #:	7165
Date/Time of Photo:	7/13/2023 10:37
Photo By:	Brian Hanson
Photo Location:	Rymer Farm Well Location

Photo Description:

Standing on east side of house looking east: View of water supply well location on east side of house.

Well ID not found. Previous landowner was Boyd Rymer. Most likely constructed in 1960-70's.

SUMMARY:

Substantial Compliance

- The permittee is currently in substantial compliance with the permit.

Areas of Concern

- Corn silage pile was placed right to the edge of feedpad and had a small amount of leachate running off into gravel apron. Clean up area and move edge of feed pile back onto feedpad so any leachate or runoff is contained.
- South side of silage pad & parts of haylage pad had small amounts of feed material present in flow channels. The surface inlet grates were also partially plugged with this material. Feed storage area should be kept as clean as possible to reduce the amount of feed flowing off the site, especially for those areas not being collected and flowing to the stormwater channel.

Permit Violations

- No violations were observed during the inspection.

Action Items

- Submit post-construction report for the newly constructed feed storage area runoff collection system. Project referred to as R-2022-0022.
- Submit permit reissuance application as required by WPDES permit schedule 2.6. Due date of 12/31/2023.

May Be Required in Next Permit Term

No specific requirements now, but will be reviewed after complete application is submitted and compliance status at time of permit reissuance.

Materials Required as part of the Permit Application

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

- 3400-025 form (Livestock/Poultry Operation WPDES Permit Application)
- 3400-025A form (Animal Units Calculation Worksheet
- 3400-025G form (Evaluated Facilities of Systems 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 of liquid manure and process wastewater storage
- Supporting documentation for days of 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