Permit Fact Sheet

General Information

Permit Number:	WI-0065030-03-0
Permittee Name:	Grand View Dairy Farm Inc
Address:	W3412 Schmidt Rd
City/State/Zip:	Brillion WI 54110
Discharge Location:	Unnamed tributaries within the Kankapot Creek and Fox River Watersheds, 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**
Milking and Dry Cows	2023	2066	0	0	
Heifers (800 lbs. to 1200 lbs.)	199	181	0	0	
Total	2222	2066	0	0	

Facility Description

Grand View Dairy is a Concentrated Animal Feeding Operations (CAFO) owned and operated by Corey Schmidt and Bruce Schmidt. It currently has 2,328 animal units (1,366 milking and dry cows, 378 heifers, and 00 calves). Based on herd size, Grand View Dairy has approximately 433 days of liquid waste storage. Grand View Dairy generates approximately 19,860,963 gallons of liquid manure and 100 tons of solid manure. They currently have 3,315 acres (632 owned and 2,503 controlled through contracts, rental agreements or leases, or under manure agreements) of which 3,034 are spreadable acres.

Substantial Compliance Determination

Enforcement During Last Permit:

There was no enforcement actions taken during the previous permit term.

After a desktop review of all annual reports, inspection reports and application materials, compliance schedule items, and a site visit on 05/22/2023, this facility has been found to be in substantial compliance with their current permit.
Compliance determination entered by Holly Stegemann on 07/15/2024.

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 liquid manure and process wastewater that is land applied from Waste Storage Facility 1 (WSF 1), located to the south of WSF 2 and west of the east feed storage pad. This is a clay lined facility that was constructed in 1979. This storage structure has a maximum operating level of 2,068,565 gallons. See the permit schedules section for additional requirements.	
002	Sample point 002 is for liquid manure and process wastewater that is land applied from WSF 2, located north of WSF 1. This is a clay lined facility that was constructed in 1992, with a maximum operating level of 4,381,092 gallons. See the permit schedules section for additional requirements.	
003	Sample point 003 is for liquid manure and process wastewater stored in WSF-3. This is a clay lined waste storage constructed in 2012, with a Maximum Operating Level (MOL) volume of approximately 16.7 million gallons.	
004	Sample point 004 is for visual monitoring and inspection of the West feed storage area and associated runoff control system. Leachate and runoff is collected and pump to WSF, runoff is also treated with a vegetated treatment 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.	
005	Sample point 005 is for the inspection and maintenance of the East feed storage pad and associated runoff control system. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	
007	Sample point 007 is for all solid manure sources that are directly land applied and not stored in a waste storage facility. This includes solid manure sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
010	Sample point 010 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 manure solids land applied from waste storage facilities 1-3. These facilities are described in sample points 001, 002, and 003 respectively. Representative samples shall be taken from each waste storage facility when land application occurs.	

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 433 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 2,328 animal units (1,366 milking and dry cows and 378 heifers), it is estimated that approximately 19,860,963 gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 632 acres of cropland and rents about 2,503. Given the rotation commonly used by the permittee, 3,304 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 (≥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 (liquids); 002- WSF 2 (liquids); 003- WSF 3 (liquids)

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

1.1.1 Changes from Previous Permit

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

1.1.2 Explanation of Operation and Management Requirements

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

Sample Point Number: 004- West FSA; 005- East FSA; 010- Stormwater

1.1.3 Changes from Previous Permit

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

1.1.4 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.

Sample Point Number: 007- Misc. Manure Solids and 011- WSF (solids)

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	

1.1.5 Changes from Previous Permit

Sample point language was updated to more accurately describe existing facilities. Sample point 011 was added to the permit for removal of solid wastes from the waste storage facilities.

1.1.6 Explanation of Operation and Management Requirements

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

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Develop a written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request.	10/01/2024

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 90 days of the effective date of this permit.	10/01/2024

2.3 Annual Reports

Submit annual reports by January 31 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 Manure Storage Facility - Abandonment

Applicable to WSF 1, reference engineering evaluation (R-2023-0227).

Required Action	Due Date
Abandonment Plan: Submit an abandonment plan for WSF 1 to the Department for approval in accordance with USDA Natural Resource Conservation Services Technical Guide, Section IV, Standard 360 outlining the proposed method of abandonment.	03/31/2025
Complete Abandonment: Complete abandonment as approved by the Department.	09/01/2026

2.6 Manure Storage Facility - Engineering Evaluation

Applicable to WSF 2, reference engineering evaluation (R-2023-0227).

Required Action	Due Date
Plans and Specifications: Submit plans and specifications for Department review and approval in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code, to permanently correct any adverse manure storage conditions.	03/31/2025
Corrections and Post Construction Documentation: Complete construction on the manure storage facility that permanently corrects any adverse conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	12/31/2026

2.7 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	03/01/2029

2.8 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 Page 9 of 9 permit requirements.

Schedules 2.5 and 2.6 were included to address engineering evaluation of WSF 1 and WSF 2 (R-2023-0227).

Special Reporting Requirements

None

Other Comments:

None

Attachments:

Map(s)

Plan Approval Letter(s)

- Conditional NMP Approval – 07/09/2024
- Days of Storage Review Letter – 07/02/2024
- Inspection Report – 05/22/2023
- Engineering Evaluation (R-2023-0227) – 07/05/2024

Expiration Date:

08/31/2029

Justification Of Any Waivers From Permit Application Requirements

N/A

Prepared By: Holly Stegemann Agricultural Runoff Management Specialist Date: 07/15/2024

State of Wisconsin
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Madison, WI 53707

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July 9th, 2024

Calumet County
Approval

Corey Schmidt
Grand View Dairy Farm, Inc.
W3412 Schmidt Rd.
Brillion, WI 54110

SUBJECT: Conditional Approval of Grand View Dairy Farm, Inc. Nutrient Management Plan, WPDES Permit No. 0065030-03-0

Dear Corey Schmidt:

After completing a review of Grand View Dairy Farm, Inc. 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 Grand View Dairy Farm, Inc. 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 Grand View Dairy Farm, Inc. 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 Grand View Dairy Farm, Inc. maintain compliance with their WPDES permit and Ch. NR 243 requirements.

FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 2,328 animal units (1,366 milking & dry cows, 378 heifers). Currently there are no planned expansions in the next permit term.
2. Manure generation and spreading records indicate your herd will annually generate approximately 19,860,963 gallons of manure and process wastewater and 100 tons of solid manure in the first year of the permit term. Other manure or offsite waste may be received over the permit term from department approved transfer opportunities, these applications shall be reflected accordingly in annual updates and future manure planning.
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 Grand View Dairy Farm, Inc. currently has 3,135 acres (632 owned and 2,503 controlled through contracts, rental agreements or leases, or under manure agreements) of which 3,034 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 Unnamed (Unnamed Trib to Garners Creek), Unnamed (WBIC 125200) (listed 303(d) impaired water by 'total phosporus'), Kankapot Creek, North Branch Manitowoc River (listed 303(d) impaired water by 'total phosphorus' & 'sediment/total suspended solids'), Killsnake River (listed 303(d) impaired water by 'PCB's', 'total phosphorus' and 'unknown pollutant').
7. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters.
8. That 9 fields are tiled.
    - Gary 6
    - GG07
    - GG08
    - Home 8
    - Home 9
    - Home 10
    - KPH 4
    - Swere
    - Thiel 1

9. 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.
10. 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 Grand View Dairy Farm, Inc. 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 Name	Other Permittee Name	Other Permittee Field Name	DNR #
BT4	Hilbert Wastewater Treatment Facility	Beil T4	109927
BT2	Hilbert Wastewater Treatment Facility	Beil T2	109923
BT3	Hilbert Wastewater Treatment Facility	Beil T3	109924
BH1	Hilbert Wastewater Treatment Facility	Beil H1	109928
BH2	Hilbert Wastewater Treatment Facility	Beil H2	109929
H2	Holland SD1 Wastewater Treatment Facility	CP 1	119324
BH3	Hilbert Wastewater Treatment Facility	Beil H3	109931

BH4	Hilbert Wastewater Treatment Facility	Beil H4	109933

Prior to any manure applications on these fields Grand View Dairy Farm, Inc. 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 Grand View Dairy Farm, Inc. 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: Grand View Dairy Farm, Inc. 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:
   - MS4 (default soil test)
   - BT4 (portion within 1,000' of municipal well)
   - BT2 (portion within 1,000' of municipal well)

   If Grand View Dairy Farm, Inc. 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 NH_4-N, percent NO_3-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, Grand View Dairy Farm, Inc. may use the following equation to adjust the first-year available nitrogen when applications are injected or incorporated within 1 hour:

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

7. Grand View Dairy Farm, Inc. shall record daily manure applications by using form 'Grand View Dairy – Daily Hauling Log'. These forms shall be retained at the farm and provided to the department upon request.

8. Grand View Dairy Farm, Inc. shall annually submit a spreading report that summarizes the land application activities listed under NR 243.19(3)(c)5., Wis. Adm. Code by using form 'CAFO Annual Spreading Report'.

<u>WINTER SPREADING</u>

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 <u>approved</u> for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
    - A1
    - ASH1
    - DD2
    - EJ1
    - JM1
    - KPH2
    - L1
    - VER1
    - R1
    - RDT4

11. The following field(s) are denied for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
    - L2 (needs in field verification for areas of channelized flow which may not be fully marked)

12. 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.

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

14. 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

15. No headland stacking sites are approved.

NR243.143/151.075 SILURIAN BEDROCK PERFORMANCE STANDARDS

16. Manure generated by Grand View Dairy Farm, Inc. that is mechanically applied to the following approved fields meet planning requirements under NR243.143/151.075, Silurian bedrock performance standards. The following fields are required to meet all requirements under NR243.143/151.075, Silurian bedrock performance standards immediately following this approval.
    - RTCJ1
    - RTCJ2
    - RTCJ3

MANURE & PROCESS WASTEWATER IRRIGATION

17. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

18. 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: Holly Stegemann, WDNR Regional Specialist (Holly.Stegemann@Wisconsin.gov)
Joe Baeten, WDNR Watershed Field Supervisor (Joseph.Baeten@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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WISCONSIN DEPT. OF NATURAL RESOURCES

July 2, 2024

FILE REF: R-2023-0204
WPDES Permit #: WI-0065030

Corey Schmidt
Grand View Dairy Farm Inc.
W3412 Schmidt Road
Brillion, WI 54110

Subject: Days of Storage Review for Grand View Dairy Farm Inc. in T20N, R19E, Section 3, Woodville Township, Calumet County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Schmidt:

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 Patrick Kuehl, P.E., Robert E Lee and Associates, Inc. on September 12, 2023 on behalf of Grand View Dairy Farm Inc.

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 Grand View Dairy Farm Inc. has 433 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. However, because two of the waste storage ponds (WSF 1 and WSF 2) currently require evaluations that contain additional actions to be completed, the number of days of storage may actually be less, in accordance with s. NR 243.15(3). The number of days of storage will change once the evaluations for the waste storages require no further actions. The current plan is to abandon WSF 1 and reconstruct WSF 2. The current number of animal units provided for the calculation is 2,328. There are currently no plans for expansion. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values. The liquid waste volumes are based upon a collection period of 365 days. Full collection of leachate and contaminated runoff from the eastern feed pad for the 25-yr, 24-hr storm event is provided. The western feed pad has first flush collection for the first 0.25 inches with the remainder being discharged to a VTA.

Waste Storage	Total Volume	Solids Storage	25-yr, 24-hr Precipitation on Storage	25-yr, 24-hr Collected Runoff	Freeboard Volume	Max. Operating Level (MOL) Volume
#1	2,657,276	165,496	111,483	17,700	294,032	2,068,565
#2	5,353,657	256,211	183,744	46,500	486,110	4,381,091
#3	19,510,202	774,584	443,536	24,271	1,183,022	17,084,789
					Total MOL Volume:	23,534,446
					Days of Storage:	**433**

Manure and Bedding:	10,266,062 gallons
Parlor Wastewater:	3,967,550 gallons
Total Feed Storage Leachate:	74,800 gallons
Total Feed Storage Runoff (East) Collected:	1,569,633 gallons
Total Feed Storage Runoff (West) Collected:	442,974 gallons
Net Precipitation on Storage Surfaces:	3,370,089 gallons
Watershed to WSF Collected:	169,855 gallons
Total Liquid Waste Stored Below the MOL:	**19,860,963 gallons**

Should you have any questions, please contact Rob Davis, DNR Madison office or your regional CAFO Specialist.

NOTICE OF APPEAL RIGHTS

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

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

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

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

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

Email: Corey Schmidt; Grand View Dairy
(920) 378-0676; gvdfarm@gmail.com

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

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State of Wisconsin
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101 S. Webster Street
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Madison WI 53707-7921

Tony Evers, Governor

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WISCONSIN
DEPT. OF NATURAL RESOURCES

July 5, 2024

FILE REF: R-2023-0227
WPDES Permit #: WI-0065030

Corey Schmidt
Grand View Dairy Farm Inc.
W3412 Schmidt Road
Brillion, WI 54110

Subject: Evaluation Review for Grand View Dairy Farm Inc. in T20N, R19E, Section 3, Woodville Township, Calumet County – FURTHER ACTIONS ARE REQUIRED

Dear Mr. Schmidt:

This letter is to inform you that the Department received on November 9, 2023, the evaluation for the Waste Storage Facility #1 and Waste Storage Facility #2, submitted under certification by Patrick Kuehl, P.E., Robert E Lee and Associates, Inc. on behalf of Grand View Dairy Farm Inc.. Patrick Kuehl, P.E. evaluated the facilities listed below based on applicable NRCS Standards and ch. NR 243 Wis. Adm. Code. This evaluation was submitted in its entirety as required in the Department's Further Actions Are Required letter dated October 13, 2022 for DNR project number R-2020-0011.

In accordance with s. 243.16(1), Wis. Adm. Code, when submitting an evaluation for an existing facility the evaluation shall include, at a minimum, the following information:

(a) A narrative providing general background and operational information on existing facilities and systems.
(b) Available post-construction documentation including the date and materials of construction.
(c) For facilities or systems that are part of the production area, an assessment of the ability of the facility or system to meet the production area requirements in s. NR 243.13, the adequate storage requirement under s. NR 243.14 (9), and accepted management practices.
(d) An assessment of the ability of the facility or system to meet the applicable design requirements identified in s. NR 243.15.
(e) Any proposed actions to address issues identified as part of the evaluation.

The Department has reviewed the evaluation for the reviewable facilities listed below and finds that they meet the requirements for submission listed above. Patrick Kuehl, P.E. assessed each reviewable facility in accordance with s. NR 243.16(1) and has concluded that the reviewable facilities listed below do not meet the ch. NR 243 requirements. The further action that is required is to submit plans and specifications for abandonment of WSF 1 and for reconstruction of WSF 2.

Reviewable Facilities Requiring Some Other Submittal

- WSF 1: Requires plans and specifications for abandonment which are compliant with ch. NR 243, Wis. Adm. Code to be submitted to the Department for approval.
- WSF 2: Requires plans and specifications for reconstruction which are compliant with ch. NR 243, Wis. Adm. Code to be submitted to the Department for approval.

In accordance with s. NR 243.16(3) and s. NR 243.17(3), Wis. Adm. Code, the Department requires additional practices or actions based on the Department's review of the submitted evaluation for the previously constructed structures or systems. This includes installation, replacement or upgrade of systems or structures in order to ensure compliance with requirements in ss. NR 243.13, and 243.15, and 243.17(3), prevent exceedances of groundwater or surface water quality standards or to prevent impairments to wetland functional values.

Submittal due dates are contained in your WPDES permit schedules sections. The DNR CAFO Specialist will contact you to discuss next steps. Questions concerning permit requirements should be directed to the DNR CAFO Specialist (contact information at the end of this letter). Questions concerning the review may be directed to Rob Davis.

NOTICE OF APPEAL RIGHTS

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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

Enclosures: Wisconsin DNR Engineering Report

Email:
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(608) 225-2720; Robert.Davis@Wisconsin.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES ENGINEERING REPORT

GENERAL INFORMATION

Farm Name: Grand View Dairy Farm Inc. **WPDES Permit#:** WI-0065030
Location Address: W3412 Schmidt Road, Brillion **DNR Project #:** R-2023-0227
Engineering Certification by: Patrick Kuehl, P.E.

Evaluated Facilities:

Waste Storage Facility 2: WSF 2 was constructed in 1999. Design drawings were obtained from Calumet County Land and Conservation Department According to the design documentation, WSF 2 has a design depth of approximately 14 ft with a 2 ft earthen sump on the west end of the facility. It is approximately 375 ft wide x 180 ft long. It is an In-place earth storage facility. The evaluation states, "The farm is proposing to reconstruct WSF 2 to meet the current CPS 313."

- Submit plans and specifications to construct a waste storage facility in accordance with s. NR 243.15(1) and (3), Wis. Adm. Code.

Abandonment:

- The evaluation states, "….they are proposing to close WSF 1 in accordance with CPS 360, Waste Facility Closure."
  - Plans are to be submitted to the Department to abandon or discontinue in accordance with s. NR 243.17(7), Wis. Adm. Code.

Evaluation Stated Proposed Actions:

- The evaluation states, "….neither WSF meets the inside slope, scour protection, or permeability requirements of the current standard. After discussing the test results with Grand View Dairy, they are proposing to close WSF 1 in accordance with CPS 360, Waste Facility Closure. The farm is proposing to reconstruct WSF 2 to meet the current CPS 313. REL will work with the farm to evaluate reconstructing the WSFs with a clay liner and concrete liner, in accordance with CPS. REL will prepare plans and specifications for both WSFs."

Department Comments to Proposed Actions:

- The Department agrees that WSF 1 should be abandoned and that WSF 2 be reconstructed to comply with ch. NR 243, Wis. Adm. Code.

DECISION RECOMMENDATION: Based on my review completed on July 3, 2024, the reviewable facilities identified above require further actions.

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

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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June 9, 2023

Corey Schmidt
Grand View Dairy
W3412 Schmidt Road
Brillion, WI 54110

WPDES Permit No. WI-0065030-02-0
Calumet County

Subject: Permit Reissue Walkover Inspection Report

Dear Mr. Schmidt:

On May 22, 2023 the Department of Natural Resources (department) conducted a permit reissuance walkover inspection of Grand View Dairy. Results and photos are included in the enclosed report. The department has noted follow up action items on page 4 in the enclosed report.

Grand View Dairy's current WPDES permit will expire September 30, 2023.

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

Sincerely,

Holly Stegemann
Agricultural Runoff Management Specialist

Enclosure: Grand View Dairy Inc. Reissuance Inspection Report

Electronic CC:
Anthony Reali, Amanda Kleiber - Calumet LCD
Amy Haak - Country Visions Cooperative
Joe Baeten, McKenna Arnoldi, Falon French - DNR

CAFO Compliance Report (06/09/2023)

Inspection Date: 05/22/2023

Inspection Type: Permit Reissuance

Operation Name: Grand View Dairy

WPDES Permit No. WI-0065030-02-0

Operation Address: W3412 Schmidt Road, Brillion, WI 54110

On-Site Representative(s): Corey Schmidt, Owner/Operator

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

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On May 22, 2023, Stegemann and McKenna Arnoldi, DNR Nutrient Management Specialist met with Schmidt, Amy Haak, Country Visions Cooperative, Amanda Kleiber, Calumet County Conservationist, and Nathen Nysse, Tilth Agronomy, for a WPDES Permit reissuance inspection of Grand View Dairy. All facilities currently covered under Grand View Dairy's WDPES Permit were inspected. No liquid precipitation had fallen prior to the inspection and no water quality samples were taken. Follow up items are listed on page 4. Overall, the permittee is in substantial compliance with the permit.

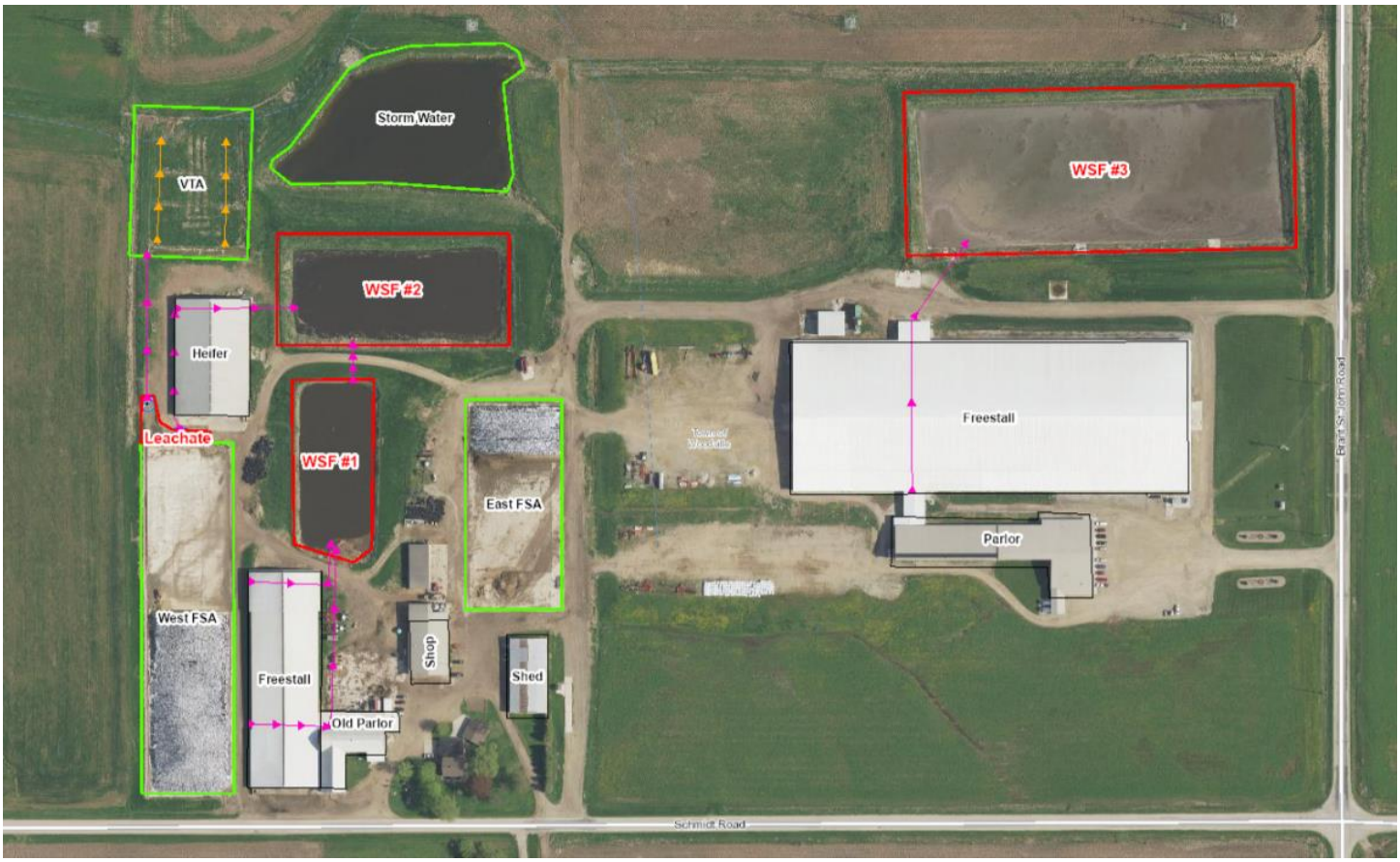

Figure 1. Aerial overview of Grandview Dairy. Approximate stormwater runoff flow paths indicate with blue arrows. Approximate contaminated runoff flow paths indicated with orange arrows. Approximate manure transfer lines indicated with pink arrows. Photo obtains via Google Earth.

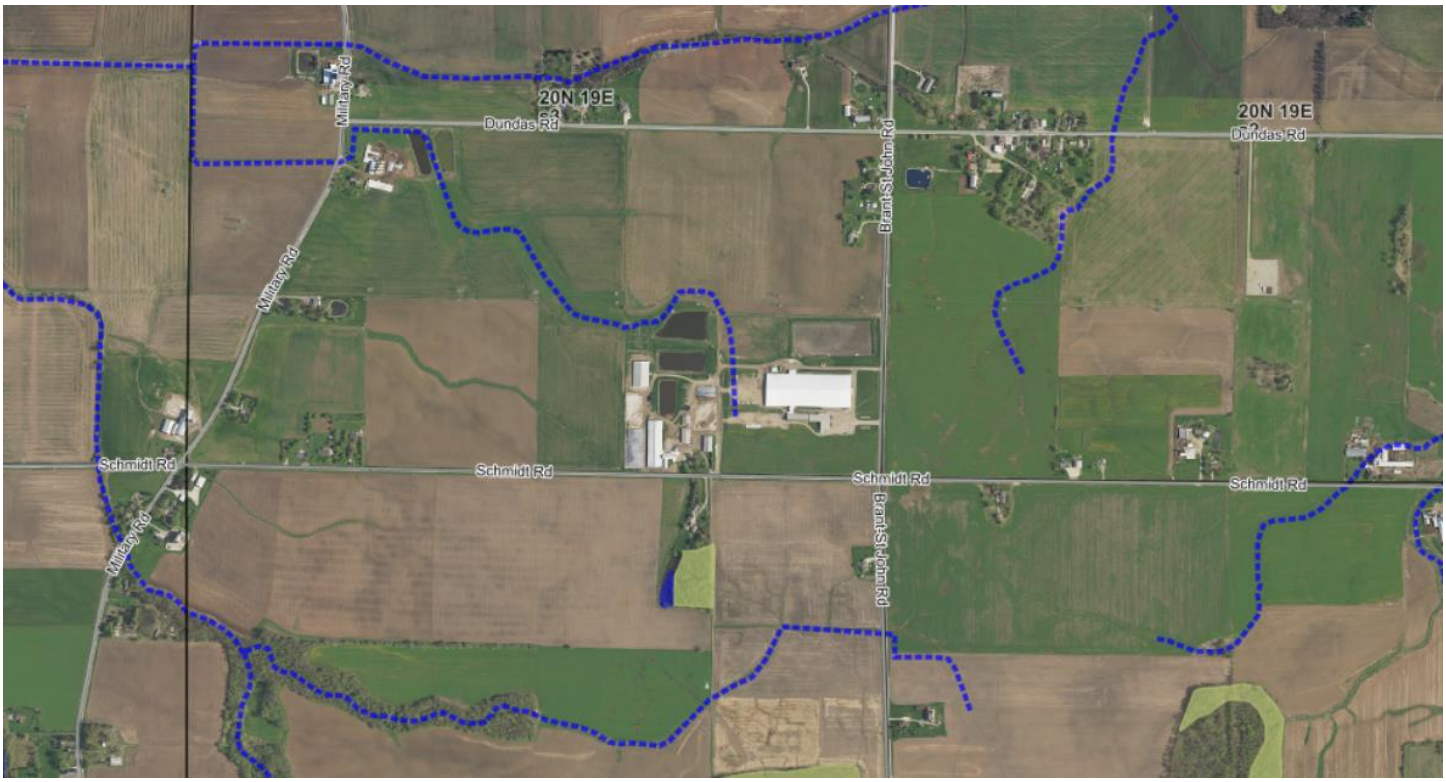

Figure 2. Aerial overview of Grand View Dairy in relation to surface water features. Green areas represent designated wetlands. Dotted blue lines indicate intermittent streams. Image obtained from SNAP Maps v20.

SITE OBSERVATIONS

Feedlot Runoff
Grand View Dairy does not utilize any outdoor feed lots or barn yards. All animals are housed under roof.

Calf Hutch Areas
Grand View Dairy does not utilize any calf hutch areas.

Waste Storage Facilities
Liquid manure and process wastewater is stored in three onsite waste storage facilities. Solid manure is stored in the south end of the heifer barn on the west side of the production site. Grand View Dairy utilized separated, dried manure fiber as the primary bedding material.

Waste storage facility 1 (WSF 1) is an earthen lined facility that is located south of WSF 1, on the west side of the production area. It accepts manure and process wastewater from the freestall barn to the south. WSF 1 was constructed in 1979 and has a maximum operating level of 1,955,153 gallons. WSF has an overflow weir to WSF 2. At the time of inspection, safety fencing and permanent markers were present.

Waste storage facility 2 (WSF 2) is an earthen lined facility, located to the north of WSF 1, on the west side of the production site. WSF 2 accepts manure and process wastewater from WSF 1, along with leachate from the west feed storage area. It has a maximum operating level of 4,404,370 gallons. At the time of inspection, safety fencing and permanent markers were present.

Waste storage facility 3 (WSF 3) is an earthen lined facility, located on the east side of the production site. WSF 3 accepts manure and process wastewater from the freestall barn to the south as well as the parlor. It has concrete agitation pads as well as a loading spill containment pad. WSF 3 has a maximum operating level of 16,723,797 gallons. At the time if inspection, safety fencing and permanent markers were present.

An engineering evaluation (R-2020-0011a) was submitted for the evaluation of waste storage facilities 1 and 2 as required by permit section 2.5. A letter from the department, requesting further information was sent on 10/13/2022. As of the date of this report, no additional information has been received. Schmidt ensured the fieldwork for the requested information has been done, the report just needs to be finished and submitted.

Solid and liquid waste storage facilities are managed to not have current or past indicators of discharges. Liquid waste storage facilities have permanent markers installed.

Process Wastewater (other than feed storage area leachate/runoff)
Wastewater from the parlor is transferred to WSF 3. Process wastewater sources are managed to not have current or past indicators of discharges.

Feed Storage Area Runoff
Grand View Dairy utilizes two areas for feed storage. The main feed storage pad is located on the west side of the production area. The concrete is pitched to convey contaminated runoff north, to the leachate collection basin. Leachate and first flush are pumped to WSF 2, while the remaining runoff flows to the vegetated treatment area located to the north of the basin. At the time of inspection, Stegemann observed areas of burnt vegetation and areas of bare soil. Schmidt explained they brought in new gravel to redo the gravel spreader bars within the VTA, just have not had time to complete the task. Apart from the area of burnt vegetation, the VTA appeared densely vegetated and showed no signs of channelized flow or ponding.

The feed storage area to the east of the main pad is currently undergoing an expansion with the addition of runoff controls (R-2022-0252). The pad is normally used to store haylage and other low moisture feeds.

Feed storage areas and associated process wastewater (leachate, runoff) are managed to not have current or past indicators of discharges.
Feed storage areas and runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

Animal Mortality Disposal
Animal mortalities are placed on the northwest corner of the largest freestall barn and picked up as needed by OJ Krull. Animal mortalities are managed to not have current or past indicators of discharges.

Ancillary Service Areas
A stormwater pond is located on the northwest side of the production area. On the northwest side of the pond, there are spillover weirs to allow for overflows and an emergency firehose hookup is located on the east end of the pond. At the time of inspection, the pond was clear in color, odorless, and free of any waste feed or other waste.

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.).

RECORDS REVIEW
The permittee has current WPDES Permit and Nutrient Management Plan onsite.
The permittee provided complete production site inspection records that are required to be retained.
The permittee provided adequate documentation that the facility has a minimum of 180 days of liquid manure storage capacity.
The permittee provided land application records to demonstrate compliance with nutrient management plan requirements.
The permittee has copies of their emergency response and monitoring and inspection plans onsite.
The permittee is up to date on required reporting and actions as specified in the Schedules section of permit.

SUMMARY

Substantial Compliance
The permittee is in substantial compliance with the permit.

Areas of Concern
- Rodent holes in the berm of Waste Storage Facility 3 may damage the integrity of the earthen liner and lead to unpermitted discharges from the production area.
- Burnt vegetation and bare areas withing the vegetated treatment area have potential to cause unpermitted discharges from the production area.

Permit Violations
None

Action Items
- Submit to the department, no later than 08/31/2023, photo documentation of the repairs made to fix the rodent holes in the liner of WSF 3.
- Submit to the department, no later that 08/31/2023, photo documentation of the actions taken to maintain the VTA, including but not limited to, installation of gravel spreader bars and reseeding areas of bare soil and burnt-out vegetation.
- Submit information requested in department letter dated 10/13/2023 to address the missing information for the evaluation of Waste Storage Facilities 1 and 2.

Items for Next Permit Term
Potential plans for installation of irrigation system

Photo #:	1316
Date/Time of Photo:	05/22/2023 12:33
Photo By:	Stegemann
Photo Location:	WSF 1

Photo Description: View of WSF 1, looking north.

Photo #:	1315
Date/Time of Photo:	05/22/2023 12:33
Photo By:	Stegemann
Photo Location:	WSF 1

Photo Description: View of permanent marker circled in red. Photo direction, northeast.

Photo #:	1345
Date/Time of Photo:	05/22/2023 12:41
Photo By:	Stegemann
Photo Location:	WSF 2

Photo Description: View of WSF 2, looking southeast.

Photo #:	1347
Date/Time of Photo:	05/22/2023 12:41
Photo By:	Stegemann
Photo Location:	WSF 2

Photo Description: View of WSF 2, looking southwest.

Photo #:	1356
Date/Time of Photo:	05/22/2023 12:49
Photo By:	Stegemann
Photo Location:	WSF 3

Photo Description: View of WSF 3, looking north.

Photo #:	1355
Date/Time of Photo:	05/22/2023 12:48
Photo By:	Stegemann
Photo Location:	

Photo Description: View of permanent markers down concrete ramp. Rodent hole circled in red. Photo direction, northeast.

Photo #:	1321
Date/Time of Photo:	05/22/2023 12:35
Photo By:	Stegemann
Photo Location:	West FSA

Photo Description: View of west feed storage area. Arrows indicate leachate flow path. Photo direction, south.

Photo #:	1323
Date/Time of Photo:	05/22/2023 12:35
Photo By:	Stegemann
Photo Location:	West FSA

Photo Description: View of west feed storage area leachate going to the leachate collection basin. Arrows indicate leachate flow path. Photo direction, northwest.

Photo #:	1329
Date/Time of Photo:	05/22/2023 12:36
Photo By:	Stegemann
Photo Location:	Leachate Basin

Photo Description: View of leachate collection basin.

Photo #:	1332
Date/Time of Photo:	05/22/2023 12:36
Photo By:	Stegemann
Photo Location:	Leachate Basin

Photo Description: View of leachate collection basin. Inlet to vegetated treatment area transfer circled in red. Photo direction, northwest.

Photo #:	1333
Date/Time of Photo:	05/22/2023 12:37
Photo By:	Stegemann
Photo Location:	Leachate Basin

Photo Description: View of solids and grate over inlet for transfer to VTA.

Photo #:	1334
Date/Time of Photo:	05/22/2023 12:38
Photo By:	Stegemann
Photo Location:	Rock Pile

Photo Description: View of gravel pile intended to redo the gravel spreader bars within the VTA.

Photo #:	1338
Date/Time of Photo:	05/22/2023 12:38
Photo By:	Stegemann
Photo Location:	VTA

Photo Description: View of concrete spreader bar and fresh gravel on VTA, looking east.

Photo #:	1336
Date/Time of Photo:	05/22/2023 12:38
Photo By:	Stegemann
Photo Location:	VTA

Photo Description: View of burnt vegetation and bare areas within the VTA, looking northeast.

Photo #:	1359
Date/Time of Photo:	05/22/2023 12:54
Photo By:	Stegemann
Photo Location:	East FSA

Photo Description: View of East feed storage area, looking south.

Photo #:	1360
Date/Time of Photo:	05/22/2023 12:55
Photo By:	Stegemann
Photo Location:	East FSA

Photo Description: View of East feed storage area expansion project, looking north.

Photo #:	1326
Date/Time of Photo:	05/22/2023 12:35
Photo By:	Stegemann
Photo Location:	Solids Area

Photo Description: View of where solids are stored underroof until land application occurs.

Photo #:	1342
Date/Time of Photo:	05/22/2023 12:40
Photo By:	Stegemann
Photo Location:	Stormwater Pond

Photo Description: View of stormwater pond, looking northeast.