

Public Noticed Foremost Farms – Marshfield Draft Permit Fact Sheet

General Information

Permit Number	WI-0037982-11-0
Permittee Name and Address	Foremost Farms USA 8401 Greenway Blvd Suite 600, Middleton, WI 53562
Permitted Facility Name and Address	Foremost Farms USA Marshfield 1511 East 4th Street, Marshfield, WI
Permit Term	January 01, 2026 to December 31, 2030
Discharge Location	Landspreading on Department approved fields
Receiving Water	Groundwaters of the Mill Creek Watershed of the Central Wisconsin River Sub-Basin in Wood County

Facility Description

Operations at the Foremost Farms USA Marshfield facility include receiving, transfer and storage of bulk milk from dairy farms, receiving of condensed milk from other plants, and production of cheese and condensed whey. Condensate of whey (COW) water that is not reused and noncontact cooling water (NCCW) are discharged to the City of Marshfield Wastewater Treatment Facility through the dairy's pretreatment/ facility final clarifier weir. The facility landspreads the following wastes on Department approved fields at Outfalls 002, 003 and 004: pretreatment plant sludges (biosolids), raw whey, dairy permeate residues, antibiotic milk waste, and high strength wastewater from clean in place (CIP) first rinses and CIP cleaning solutions. Proposed permit changes include additional monitoring for the parameters of ammonia, organic nitrogen, and potassium at outfall 002, increased monitoring from quarterly to monthly monitoring for some parameters at outfall 002, and additional monitoring of potassium at outfall 003 and 004. Also included in this reissuance is a requirement to update the land application management plan for the facility.

Substantial Compliance Determination

Enforcement During Last Permit: None

After a desk top review of all land app reports and a site visit on 10/15/2024, this facility has been found to be in substantial compliance with their current permit.

Compliance determination made by Peter Carlson on 9/19/2025.

Sample Point Descriptions

Sample Point Designation		
Sample Point Number	Discharge Flow, Units, and Averaging Period	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
002	2.5 MG (2024)	Representative sludge samples shall be collected from a truckload of waste that is representative of the sludges to be landspread. Discharge is limited to dairy pre-treatment plant sludges (biosolids).
003	711,000 gallons (2024)	Representative samples shall be collected prior to landspreading. Discharge is limited to whey, permeate and antibiotic milk.

Sample Point Designation		
Sample Point Number	Discharge Flow, Units, and Averaging Period	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
004	Other methods of disposal to manure pits	Representative samples of high strength washwater shall be collected prior to landspreading. Discharge is limited to clean in place (CIP) rinses and CIP cleaning solutions.

Permit Requirements

1 Land Application

1.1 Sample Point Number: 002- PRE-TREATMENT PLANT SLUDGES

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Solids, Total		Percent	Monthly	Grab Comp	
Chloride		Percent	Monthly	Grab Comp	
Nitrogen, Total Kjeldahl		Percent	Monthly	Grab Comp	
Nitrogen, Ammonia (NH ₃ -N) Total		Percent	Quarterly	Grab Comp	
Nitrogen, Organic Total		Percent	Quarterly	Calculated	
Phosphorus, Total		Percent	Quarterly	Grab Comp	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Grab Comp	
Potassium, Total Recoverable		Percent	Quarterly	Grab Comp	
pH Field		su	Quarterly	Grab	

1.1.1 Changes from Previous Permit:

Addition of Nitrogen, Ammonia (NH₃- N) Total, Nitrogen, Organic Total, Potassium, Total Recoverable monitoring. Monitoring frequency changed from quarterly to monthly for total Solids, Chloride, and Total Kjeldahl Nitrogen to gather more representative data.

1.1.2 Explanation of Limits and Monitoring Requirements

Requirements for land application of industrial sludge are determined in accordance with ch. NR 214 Wis. Adm. Code.

1.2 Sample Point Number: 003- OFF SPEC DAIRY PRODUCTS

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Solids, Total		Percent	Quarterly	Grab	
Chloride		mg/L	Quarterly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Quarterly	Grab	
Phosphorus, Total		mg/L	Quarterly	Grab	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Grab	
Potassium, Total Recoverable		mg/L	Quarterly	Grab	

1.2.1 Changes from Previous Permit:

Addition of potassium monitoring.

1.2.2 Explanation of Limits and Monitoring Requirements

Requirements for land application of industrial liquid wastes are determined in accordance with ch. NR 214 Wis. Adm. Code.

1.3 Sample Point Number: 004- CIP RINSES & SOLUTIONS

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Chloride		mg/L	Quarterly	Composite	
Nitrogen, Total Kjeldahl		mg/L	Quarterly	Composite	
Phosphorus, Total		mg/L	Quarterly	Composite	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Composite	
pH Field		su	Quarterly	Composite	
Potassium, Total Recoverable		Percent	Quarterly	Composite	

1.3.1 Changes from Previous Permit:

Addition of potassium monitoring.

1.3.2 Explanation of Limits and Monitoring Requirements

Requirements for land application of industrial liquid wastes are determined in accordance with ch. NR 214 Wis. Adm. Code.

2 Schedules

2.1 Land Application Management Plan

A management plan is required for the land application system.

Required Action	Due Date
Land Application Management Plan: Submit an update to the management plan to optimize the land application system performance and demonstrate compliance with Wisconsin Administrative Code NR 214.	03/31/2026

2.1.1 Explanation of Schedule

Land Application Management Plan- An up-to-date Land Application Management plan is a standard requirement in reissued industrial permits per s. NR 214.17(6)(c), Wis. Adm. Code.

Other Comments

Facility initially requested to add a surface water outfall. However, after phosphorus testing and water quality effluent limit calculations for the discharge was received, the facility decided to not pursue this method of discharge.

Attachments

Public Notice - The Marshfield News Herald, 111 W. Third St., PO Box 70, Marshfield, WI 54449-00707

Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Angela Parkhurst

Wastewater Specialist

Date: October 7, 2025