

# Permit Modification Fact Sheet

Changes from the previous permit are highlighted in grey.

## General Information

Permit Number:	WI-0051365-08-1
Permittee Name:	Rosewood Dairy Inc
Address:	248 County Rd S
City/State/Zip:	Algoma WI 54201-9444
Discharge Location:	County Rd S in Door County
Receiving Water:	Groundwater of the Stony Creek Watershed (TK05) in the Door Peninsula Drainage Basin within the Lake Michigan Basin via land application in Door County

## Facility Description

Rosewood Dairy Inc produces various cheese products at the facility located on County Rd S in Door County. The facility generates roughly 10,000-12,000 gallons per day of process liquid wastewater and noncontact cooling water. The combined liquid wastewater is collected in holding tanks on-site until disposal. The permit maintains Outfall 002 for landspreading on Department-approved sites. During periods of inclement weather or when landspreading is not an option, the facility utilizes contract haulers to dispose of the liquid wastewater at either an approved manure storage facility or a wastewater treatment facility. Outfall 003 is for the landspreading of liquid process wastewater from the off-site storage structure located in Nasewaupee, Door County (Kerscher's Pit).

## Substantial Compliance Determination

**Enforcement During Last Permit:** There were no formal enforcement actions taken during the previous permit term.

**After a desk top review of all land application reports, compliance schedule items, and a site visit on 3/20/23, this facility has been found to be in substantial compliance with their current permit.**

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	Average Annual Total of 2.8 million gallons (2020-2022)	Discharge to landspreading is limited to process wastewater, noncontact cooling water, milk or whey. Sampling and monitoring only required prior to land application.
003	N/A – new sample point	Representative samples of stored liquid process wastewater shall be obtained from the off-site storage structure located in Nasewaupee, Door County (Kerscher's Pit) prior to landspreading. Sampling and monitoring only required prior to land application.

## 1 Land Application – Liquid Wastes (industrial only)

## Sample Point Number: 002- LIQUID LANDSPREADING and 003- KERSCHER PIT

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

### Changes from Previous Permit:

- Addition of water extractable phosphorus monitoring, to meet the minimum land application monitoring requirements.
- Addition of potassium monitoring, to meet the minimum land application monitoring requirements.
- Addition of sample point 003 for the landspreading of liquid process wastewater from the off-site storage structure located in Nasewaupée, Door County (Kerschler's Pit). Monitoring requirements are the same as those included for sample point 002.

### 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.

**Water Extractable Phosphorus (WEP)** – WEP is the coefficient for determining plant available phosphorus from measured total phosphorus. In Wisconsin, the Penn State Method is utilized and is expressed in percent. While a total P may be significant, the WEP may show that only a small percentage of the P is available to plants because of factors such as treatment processes and chemical addition that “tie-up” phosphorus limiting the amount of phosphorus that is plant available. As part of the Wisconsin’s nutrient management plan (NMP) requirements, the accounting of all fertilizers must be included over the NMP cycle. The fertilizer value of the waste needs to be communicated to the farmer and accounted for in the NMP.

## 2 Schedules

### 2.1 Land Application Management Plan

A management plan is required for the land application system.

Required Action	Due Date
<b>Land Application Management Plan:</b> Submit an update to the management plan to optimize the land application system performance and demonstrate compliance with Wisconsin Administrative Code NR 214.	05/31/2024

### Explanation of Schedules

This schedule is included to require an update to the land application management plan once during the permit term. The previous permit included a due date for this schedule item of 3/31/25. However, since a new outfall/sample point has been added, the due date has been changed to 5/31/24 so that the new sample point may be incorporated into the updated land application management plan within 60 days of permit modification.

### Proposed Expiration Date:

March 31, 2028

### Justification Of Any Waivers From Permit Application Requirements:

No waivers from permit application requirements were granted.

**Prepared By:** Sarah Donoughe, Wastewater Specialist-Adv

**Date:** January 20, 2023

**Revised:** January 18, 2024