

Balchem Ingredient Solutions Public Noticed Permit Fact Sheet

General Information

Permit Number	WI-0040410-10-0
Permittee	Balchem Ingredient Solutions, 211 East Depot Street, Marshfield, WI 54449-0514
Permitted Facility	Balchem Ingredient Solutions, 211 East Depot Street, Marshfield, WI
Permit Term	April 01, 2026 to March 31, 2031
Discharge Location	Land application occurs in Marathon, Wood, Clark and Portage counties
Receiving Water	groundwater in Little Eau Pleine River Watershed of Central Wisconsin River Basin
Discharge Type	Existing

Facility Description

Balchem Ingredients Solutions specializes in the production of high-quality nutritional and Powder ingredients for the food industries. The facility focuses on the formulation and manufacturing of various products, including non-dairy, specialty ingredients, and other dietary supplements. Most wastewater is generated via cleaning and sanitizing. Wastewater is landspread on Department approved fields or DNR approved manure facilities for agitation purposes. Average daily wastewater destined for landspreading ranges from 10,000 gallons to 14,000 gallons per day, approximately 3 million gallons a year is land applied. No major operational changes have occurred during the last permit term. No significant monitoring changes are proposed in the upcoming permit term.

Substantial Compliance Determination

Enforcement During Last Permit: None. After a desk top review of all land app reports and a site visit on 03/11/2025, this facility has been found to be in substantial compliance with their current permit.

Compliance determination made by Peter Carlson on 11/11/2025.

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	Approximately 3 million gallons a year is land applied.	Representative composite grab samples of process wastewater shall be collected while trucks are loaded at the truck loading location prior to landspreading or prior to discharge to manure pits. Discharge is limited to process wastewater from cleaning and sanitizing activities.

Permit Requirements

1 Land Application – Process Washwater

1.1 Sample Point Number: 002- PROCESS WASHWATER

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

Changes from Previous Permit:

Industrial liquid waste limitations and monitoring requirements were evaluated for this permit term. The only change is the increase in monitoring frequency for total Kjeldahl Nitrogen and chloride to better track compliance and potential impacts to groundwater from land application activities.

Explanation of Limits and Monitoring Requirements

Requirements for land application of industrial liquid waste 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.	05/31/2026

Explanation of Schedule: 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

Publishing Newspaper: Marshfield News Herald, 144 N Central Avenue, Marshfield, WI, 54449-0070

Attachments

None

Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Holly Heldstab, Wastewater Specialist

Date: January 12, 2026