

WPDES PERMIT

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES PERMIT TO DISCHARGE UNDER THE WISCONSIN POLLUTANT DISCHARGE

Westby Coop Creamery

ELIMINATION SYSTEM

is permitted, under the authority of Chapter 283, Wisconsin Statutes, to discharge from a facility located at 707 Highland St., Westby, WI NE1/4 NE1/4, SEC 32 T14N R4W, City of Westby, WI

to

a noncontinuous stream to the North Fork of the Bad Axe River and the groundwaters of the Bad Axe River Watershed all located in the Bad Axe-La Crosse River Basin in Vernon County

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

The permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after this expiration date an application shall be filed for reissuance of this permit, according to Chapter NR 200, Wis. Adm. Code, at least 180 days prior to the expiration date given below.

	of Wisconsin Department of Natural Resource ne Secretary
Ву	
	Geisa Bittencourt
	Wastewater Field Supervisor
	Date Permit Signed/Issued for Modification

PERMIT TERM: EFFECTIVE DATE - August 01, 2023 EFFECTIVE DATE OF MODIFICATION: January 01, 2026 **EXPIRATION DATE - June 30, 2028**

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1 Influent Requirements

1.1 Sampling Point(s)

	Sampling Point Designation						
Sampling Point Number	Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)						
702	Representative influent samples shall be collected at the Palmer Bowlus Flume prior to discharge to the aerated lagoons.						

1.2 Monitoring Requirements

The permittee shall comply with the following monitoring requirements.

1.2.1 Sampling Point 702 - INFLUENT @ PALMER BOWLUS FLUME

Monitoring Requirements and Limitations						
Parameter	Notes					
		Units	Frequency	Type		
Flow Rate		MGD	Daily	Continuous		
BOD ₅ , Total		mg/L	2/Week	24-Hr Comp		
Suspended Solids,		mg/L	2/Week	24-Hr Comp		
Total				_		

2 Surface Water Requirements

2.1 Sampling Point(s)

The discharge(s) shall be limited to the waste type(s) designated for the listed sampling point(s).

	Sampling Point Designation						
Sampling	Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)						
Point							
Number							
002	Representative effluent samples shall be collected at the post aeration manhole prior to mixing with the						
	City of Westby effluent. Discharge is limited to process wastewater.						

2.2 Monitoring Requirements and Effluent Limitations

The permittee shall comply with the following monitoring requirements and limitations.

2.2.1 Sampling Point (Outfall) 002 - PROCESS WW @ POST AERATION

	Monitoring Requirements and Effluent Limitations						
Parameter	Limit Type	Limit and	Sample	Sample	Notes		
		Units	Frequency	Type			
Flow Rate		MGD	Daily	Total Daily			
BOD ₅ , Total	Daily Max	40 mg/L	2/Week	24-Hr Comp			
BOD ₅ , Total	Monthly Avg	20 mg/L	2/Week	24-Hr Comp			
BOD ₅ , Total	Daily Max	58 lbs/day	2/Week	Calculated			
BOD ₅ , Total	Monthly Avg	23 lbs/day	2/Week	Calculated			
Suspended Solids, Total	Monthly Avg	60 mg/L	2/Week	24-Hr Comp	Effective through May 31, 2028.		
Suspended Solids, Total	Weekly Avg	30 mg/L	2/Week	24-Hr Comp	Limit effective 06/01/2028 per the associated compliance schedule.		
Suspended Solids, Total	Monthly Avg	20 mg/L	2/Week	24-Hr Comp	Limit effective 06/01/2028 per the associated compliance schedule.		
Suspended Solids, Total	Daily Max	87 lbs/day	2/Week	Calculated			
Suspended Solids, Total	Monthly Avg	32 lbs/day	2/Week	Calculated			
pH Field	Daily Min	6.0 su	Daily	Grab			
pH Field	Daily Max	9.0 su	Daily	Grab			
Dissolved Oxygen	Daily Min	4.0 mg/L	Daily	Grab			
Phosphorus, Total	Rolling 12 Month Avg	7.7 mg/L	Weekly	24-Hr Comp			

	Monitoring Requirements and Effluent Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes	
Nitrogen, Ammonia Variable Limit		mg/L	2/Week	See Table	Look up the variable ammonia limit from the 'Variable Ammonia Limitation' table and report the variable limit in the Ammonia Variable Limit column on the eDMR.	
Nitrogen, Ammonia (NH ₃ -N) Total	Daily Max - Variable	mg/L	2/Week	24-Hr Comp	Limits effective 06/01/2028 per the associated compliance schedule. Report the daily maximum Ammonia result in the Nitrogen, Ammonia (NH3-N) Total column of the eDMR. See Ammonia Limitation Section.	
Nitrogen, Ammonia (NH ₃ -N) Total	Monthly Avg	11 mg/L	2/Week	24-Hr Comp	Limit applies May – Oct beginning June 2028. See the associated compliance schedule.	
Nitrogen, Ammonia (NH ₃ -N) Total	Weekly Avg	28 mg/L	2/Week	24-Hr Comp	Limit applies May – Oct beginning June 2028. See the associated compliance schedule.	
Nitrogen, Ammonia (NH ₃ -N) Total	Monthly Avg	21 mg/L	2/Week	24-Hr Comp	Limit applies Nov – April beginning in June 2028. See the associated compliance schedule.	
Chlorine, Total Residual	Daily Max	19 μg/L	2/Week	Grab		
Chlorine, Total Residual	Weekly Avg	7.3 μg/L	2/Week	Grab		
Chlorine, Total Residual	Monthly Avg	7.3 μg/L	2/Week	Grab		
Chloride		mg/L	Quarterly	24-Hr Comp		
Nitrogen, Total Kjeldahl		mg/L	Quarterly	24-Hr Comp	See section below on	
Nitrogen, Nitrite + Nitrate Total		mg/L	Quarterly	24-Hr Comp	nitrogen series monitoring for more info.	
Nitrogen, Total		mg/L	Quarterly	Calculated		
Temperature Maximum		deg F	2/Week	Multiple Grab	Monitoring required July 2026 - June 2027. See temperature section below.	
Acute WET	Daily Max	1.0 TU _a	See Listed Qtr(s)	24-Hr Comp	See WET testing section below.	

2.2.1.1 Variable Daily Maximum Ammonia Limits

Limits become effective in 2028; monitoring is required at permit effective date. See the associated compliance schedule for more information. The table below states the applicable ammonia limit for various pH values and should be used to determine daily maximum ammonia limits. Total ammonia (NH3-N) sampling shall occur on the same day pH levels are monitored. Report the applicable variable limit on the DMR in the Ammonia Variable Limit column.

Note that pH values should be rounded to the 0.1 s.u. before using the table below. For example, if the pH field reading is 8.04, the value of 8.0 should be used. If the pH field reading is 8.06, the value of 8.1 should be used.

Effluent pH s.u.	Limit mg/L	Effluent pH s.u.	Limit mg/L	Effluent pH s.u.	Limit mg/L
$6.0 \le \mathrm{pH} \le 6.1$	83	$7.0 < pH \le 7.1$	51	$8.0 < pH \le 8.1$	11
$6.1 < pH \le 6.2$	82	$7.1 < pH \le 7.2$	46	$8.1 < pH \le 8.2$	8.8
$6.2 < pH \le 6.3$	80	$7.2 < pH \le 7.3$	40	$8.2 < pH \le 8.3$	7.3
$6.3 < pH \le 6.4$	78	$7.3 < pH \le 7.4$	35	$8.3 < pH \le 8.4$	6.0
$6.4 < pH \le 6.5$	75	$7.4 < pH \le 7.5$	31	$8.4 < pH \le 8.5$	4.9
$6.5 < pH \le 6.6$	72	$7.5 < pH \le 7.6$	26	$8.5 < pH \le 8.6$	4.1
$6.6 < pH \le 6.7$	69	$7.6 < pH \le 7.7$	22	$8.6 < pH \le 8.7$	3.4
$6.7 < pH \le 6.8$	65	$7.7 < pH \le 7.8$	19	$8.7 < pH \le 8.8$	2.8
$6.8 < pH \le 6.9$	60	$7.8 < pH \le 7.9$	16	$8.8 < pH \le 8.9$	2.4
$6.9 < pH \le 7.0$	56	$7.9 < pH \le 8.0$	13	$8.9 < pH \le 9.0$	2.0

2.2.1.1 Nitrogen Series Monitoring

Monitoring shall be performed during normal operating conditions. Permittees are not allowed to turn off or otherwise modify treatment systems, production processes, or change other operating or treatment conditions during testing. Total Nitrogen shall be calculated as the sum of reported values for Total Kjeldahl Nitrogen and Total Nitrite + Nitrate Nitrogen.

2.2.1.2 Effluent Temperature Monitoring

Monitoring required July 2026 – June 2027 only. For manually measuring effluent temperature, grab samples should be collected at 6 evenly spaced intervals during the 24-hour period. Alternative sampling intervals may be approved if the permittee can show that the maximum effluent temperature is captured during the sampling interval. For monitoring temperature continuously, collect measurements in accordance with s. NR 218.04(13). This means that discrete measurements shall be recorded at intervals of not more than 15 minutes during the 24-hour period. In either case, report the maximum temperature measured during the day on the DMR. For seasonal discharges collect measurements either manually or continuously during the period of operation and report the daily maximum effluent temperature on the DMR

2.2.1.3 Whole Effluent Toxicity (WET) Testing

Primary Control Water: a synthetic (standard) laboratory water may be used as the dilution water and primary control in acute WET tests, unless the use of different dilution water is approved by the Department prior to use

Dilution series: At least five effluent concentrations and dual controls must be included in each test.

• Acute: 100, 50, 25, 12.5, 6.25% and any additional selected by the permittee.

Acute WET Tests are required during the following quarters:

• 4th quarter (Oct-Dec) 2023

- 3rd quarter (July-Sept) 2024
- 2nd quarter (April-June) 2025
- 1st quarter (Jan-March) 2026
- 4th quarter (Oct-Dec) 2027

Acute WET testing shall continue after the permit expiration date (until the permit is reissued) in accordance with the WET requirements specified for the last full calendar year of this permit. For example, the next test would be required in **4th quarter (Oct-Dec) 2028**.

Testing: WET testing shall be performed during normal operating conditions. Permittees are not allowed to turn off or otherwise modify treatment systems, production processes, or change other operating or treatment conditions during WET tests.

Reporting: The permittee shall report test results on the Discharge Monitoring Report form, and also complete the "Whole Effluent Toxicity Test Report Form" (Section 6, "*State of Wisconsin Aquatic Life Toxicity Testing Methods Manual, 2nd Edition*"), for each test. The original, complete, signed version of the Whole Effluent Toxicity Test Report Form shall be sent to the Biomonitoring Coordinator, Bureau of Water Quality, 101 S. Webster St., P.O. Box 7921, Madison, WI 53707-7921, within 45 days of test completion. The Discharge Monitoring Report (DMR) form shall be submitted electronically by the required deadline.

Determination of Positive Results: An acute toxicity test shall be considered positive if the Toxic Unit - Acute (TU_a) is greater than 1.0 for either species. The TU_a shall be calculated as follows: $TU_a = 100 \div LC_{50}$.

Additional Testing Requirements: Within 90 days of a test which showed positive results, the permittee shall submit the results of at least 2 retests to the Biomonitoring Coordinator on "Whole Effluent Toxicity Test Report Forms". The 90-day reporting period shall begin the day after the test which showed a positive result. The retests shall be completed using the same species and test methods specified for the original test (see the Standard Requirements section herein).

2.2.1.4 Additives

The permittee shall maintain a record of the dosage rate of all additives used on a monthly basis. The additives may be changed during the term of the permit following procedures in the 'Additives' subsection of the Standard Requirements.

3 Land Application Requirements

3.1 Sampling Point(s)

The discharge(s) shall be limited to land application of the waste type(s) designated for the listed sampling point(s) on Department approved land spreading sites or by hauling to another facility.

	Sampling Point Designation						
Sampling Point Number	Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)						
008	If sludge is to be removed from the ponds, at least 60 days prior to initiation of landspreading activities, the permittee shall 1) notify the Department, 2) representative samples shall be collected from a truckload of waste and monitored for the parameters below, 3) new land application sites shall be approved, and 4) an updated land application management plan shall be submitted. All land application forms (3400-49, 3400-52 & 3400-55) shall be submitted annually, regardless if sludge is removed from the ponds. During years that no sludge is removed, the permittee shall submit forms & indicate "no discharge". Discharge is limited to lagoon sludge. Discharge to manure pits is prohibited.						

3.2 Monitoring Requirements and Limitations

The permittee shall comply with the following monitoring requirements and limitations.

3.2.1 Sampling Point (Outfall) 008 - POND SLUDGE

Monitoring Requirements and Limitations						
Parameter	Limit Type	Limit and	Sample	Sample	Notes	
		Units	Frequency	Type		
Solids, Total		Percent	Annual	Grab	Monitoring for these	
Nitrogen, Total Kjeldahl		Percent	Annual	Grab	parameters is only required if the permittee land	
Nitrogen, Ammonium (NH ₄ -N) Total		Percent	Annual	Grab	applies, or intends to remove pond sludge & land	
Chloride		Percent	Annual	Grab	apply the waste on their	
Phosphorus, Total		Percent	Annual	Grab	own approved fields	
Phosphorus, Water Extractable		% of Tot P	Annual	Grab	themselves. If waste is hauled by a licensed hauler	
Potassium, Total Recoverable		Percent	Annual	Grab	and land applied on that hauler's approved fields,	
pH Field		su	Annual	Grab	monitoring is not required. All land app forms shall be submitted annually (3400-49, 3400-52 and 3400-55) regardless of how the sludge is handled. See the appropriate schedule in the Schedules section for additional info.	

Daily Log – Monitoring Requirements and Limitations

All discharge and monitoring activity shall be documented on log sheets. Originals of the log sheets shall be kept by the permittee as described under "Records Retention" in the Standard Requirements section, and if requested, made available to the Department.

Parameters	Limit	Units	Sample Frequency	Sample Type
DNR Site Number(s)	-	Number	Daily	Log
Acres Applied	-	Acres	Daily	Log
Application Rate	-	Gal/Acre/Day	Daily	Calculated

Annual Report – Summary of Monitoring Requirements and Limitations

The Annual Report is due by January 31st of each year for the previous calendar year. See the 'Annual Land Application Report' subsection in Standard Requirements.

Parameters	Limit	Units	Reporting Frequency	Sample Type
DNR Site Number(s)	-	Number	-	-
Acres Land Applied	-	Acres	Annual	-
Total Volume Per Site	-	Gallons	Annual	Total Annual
Total Kjeldahl Nitrogen per Site	165, or alternate approved in writing	Pounds/Acre/Year	Annual	Calculated
Total Chloride per Site	340	Pounds/Acre per 2 Years	Annual	Calculated

3.2.1.1 Annual Site Nitrogen Loading

For details on nitrogen loading requirements, including approval of an alternate nitrogen pounds/acre/year site loading, see the "Nitrogen Requirements for Liquid Wastes, By-Product Solids and Sludges" paragraph in the Standard Requirements section of this permit.

3.2.1.2 Biennial Site Chloride Loading

For details on chloride requirements see the "Chloride Requirements for Liquid Wastes and By-Product Solids" paragraph in the Standard Requirements section of this permit.

4 Schedules

4.1 Ammonia Compliance Schedule

Required Action		
Report on Effluent Discharges: Submit a report on effluent discharges of ammonia with conclusions regarding compliance.		
Action Plan: Submit an action plan for complying with the effluent limitation.	01/31/2026	
Submit Design Report for Upgrade: The permittee shall submit a Final Engineering Design Report per s. NR 108.04(1), Wis. Adm. Code.	09/30/2026	
Submit Final Plans and Specifications: The permittee shall submit final construction plans and specifications to the department for approval pursuant to s. 281.41, Wis. Stats., consistent with the approved Engineering Design Report and a schedule for completing construction of the upgrades by the 'Complete Construction' date specified.	09/30/2026	
Initiate Construction: The permittee shall initiate bidding, procurement, and/or construction of the project. The permittee shall obtain approval of the final construction plans and schedule from the Department pursuant to s. 281.41. Stats., prior to initiating activities defined as construction under ch. NR 108, Wis. Adm. Code. Upon approval of the final construction plans and schedule by the Department pursuant to s. 281.41, Stats., the permittee shall construct the treatment plant upgrades in accordance with the approved plans and specifications.	04/30/2027	
Construction Upgrade Progress Report: The permittee shall submit a progress report on construction upgrades.	11/30/2027	
Complete Construction: The permittee shall complete construction of system upgrades necessary to achieve compliance with the effluent limitations starting June 1, 2028, and notify the department of completion via email.	05/31/2028	

4.2 Land Application Management Plan

Required Action	Due Date
Updated Land Application Management Plan: Westby Coop Creamery has indicated it does not intend to land apply during this permit term. If Westby Coop Creamery decides to land apply, it will notify the department at least 60 days prior to land application. In addition, Westby Coop Creamery will update its Land Application Management Plan to include additional storage, sampling, transport and land application information to comply with its WPDES permit and ch. NR 214, Wis. Adm. Code. This plan and all fields will be approved prior to land application.	
If operational changes are needed, the Land Application Management Plan shall be amended by submitting a written request to the Department for approval of such amendments.	

4.3 Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting

Required Action	Due Date
Waterway Inspection: In the reach of waterway beginning at the outfall pipe and extending downstream until water is no longer present, the permittee shall conduct quarterly inspections. Inspections shall follow the May 8, 2007 DNR approved "Waterway Maintenance Management Plan" and documented on the approved inspection form in this plan. Modifications or amendments to this plan must be approved by the Department prior to implementation. The inspections shall take place at a time when stormwater and snowmelt is least likely to affect waterway flow and shall include identification, location and documentation of any holes in the streambed into which water is flowing. They also shall document the downstream extent of effluent on the ground surface. On an annual basis, the permittee shall contact owners of all property adjacent to the effluent waterway to find out if they are aware of any problem areas in the waterway or if they have any concerns that need to be addressed.	
Report on Effluent Discharges: Submit a report on effluent discharges of total suspended solids with conclusions regarding compliance.	01/31/2026
Waterway Follow-up Repair Actions: The permittee shall take the following follow-up actions by the time frame specified whenever effluent is observed to be flowing into a hole in the bed of the waterway:	
1) Notify the Department within 24 hours of discovery.	
2) Implement a temporary remedy as soon as possible but no later than 14 days after discovery. Details as to what the temporary remedy was and when it was implemented shall be provided in the annual report.	
3) Implement a permanent remedy within 60 days of discovery, unless weather conditions prevent an appropriate remedy within that time frame. The Department shall be notified in writing, by email or by phone seven days prior to starting the permanent remedy. Details as to what the permanent remedy was and when it was implemented shall be provided in the annual report detailed below.	
Remedies implemented shall be those approved in management plan listed below, or individually approved later.	
Action Plan: Submit an action plan for complying with the effluent limitation. If construction is required, include plans and specifications with the submittal.	03/31/2026
Initiate Actions: Initiate actions identified in the plan.	06/30/2026
Annual Waterway Inspection Reports: The permittee shall produce annual reports that include the items mentioned under Waterway Inspection and Waterway Follow-up Repair Actions and submit them to the Department by January 31 of the following year.	
Annual Waterway Inspection Report: Permittee shall submit the 2023 annual report discussed above.	01/31/2024
Progress Report: Permittee shall submit a report detailing the progress made to meet the ammonia effluent limitations	06/30/2027
Complete Actions: Complete actions necessary to achieve compliance with the effluent limitations. Limits become effective 04/01/2028.	03/31/2028
Annual Waterway Inspection Report: Permittee shall submit the 2024 annual report discussed above.	01/31/2025
Annual Waterway Inspection Report: Permittee shall submit the 2025 annual report discussed	01/31/2026

above.	
Annual Waterway Inspection Report: Permittee shall submit the 2026 annual report discussed above.	01/31/2027
Annual Waterway Inspection Report: Permittee shall submit the 2027 annual report discussed above.	01/31/2028
Annual Inspections After Permit Expiration: In the event that this permit is not reissued by the date the permit expires, the permittee shall continue to conduct the Waterway Inspections and submit reports on the annual Waterway Inspections following the due dates listed above. The reports shall include the information as defined above.	

4.4 Total Suspended Solids Compliance Schedule

Required Action	Due Date
Action Plan: Submit an action plan for complying with the effluent limitation.	01/31/2026
Submit Design Report for Upgrade: The permittee shall submit a Final Engineering Design Report per s. NR 108.04(1), Wis. Adm. Code.	09/30/2026
Submit Final Plans and Specifications: The permittee shall submit final construction plans and specifications to the department for approval pursuant to s. 281.41, Wis. Stats., consistent with the approved Engineering Design Report and a schedule for completing construction of the upgrades by the 'Complete Construction' date specified.	09/30/2026
Initiate Construction: The permittee shall initiate bidding, procurement, and/or construction of the project. The permittee shall obtain approval of the final construction plans and schedule from the Department pursuant to s. 281.41. Stats., prior to initiating activities defined as construction under ch. NR 108, Wis. Adm. Code. Upon approval of the final construction plans and schedule by the Department pursuant to s. 281.41, Stats., the permittee shall construct the treatment plant upgrades in accordance with the approved plans and specifications.	04/30/2027
Construction Upgrade Progress Report: The permittee shall submit a progress report on construction upgrades.	11/30/2027
Complete Construction: The permittee shall complete construction of system upgrades necessary to achieve compliance with the effluent limitations starting June 1, 2028, and notify the department of completion via email.	05/31/2028

4.5 General Treatment Plant Compliance Schedule

Required Action	Due Date
Submit Progress/Action Report: The permittee shall submit a report determining if the modernization project will still require a WWTP upgrade to meet all applicable effluent limits. This report shall include an evaluation of data available and calculations to justify the conclusion. This action report shall also include a schedule for the modernization project.	01/31/2026
If the current WWTP design is expected to meet all applicable limits after the modernization project,	

no further steps are needed with this compliance schedule. If the current WWTP design is not expected to be able to meet the current and future limits after the modernization project, the remained of the schedule applies.	
Submit Design Report for Upgrade: The permittee shall submit a Final Engineering Design Report per s. NR 108.04(1), Wis. Adm. Code.	09/30/2026
Submit Final Plans and Specifications: The permittee shall submit final construction plans and specifications to the department for approval pursuant to s. 281.41, Wis. Stats., consistent with the approved Engineering Design Report and a schedule for completing construction of the upgrades by the 'Complete Construction' date specified.	09/30/2026
Initiate Construction: The permittee shall initiate bidding, procurement, and/or construction of the project. The permittee shall obtain approval of the final construction plans and schedule from the Department pursuant to s. 281.41. Stats., prior to initiating activities defined as construction under ch. NR 108, Wis. Adm. Code. Upon approval of the final construction plans and schedule by the Department pursuant to s. 281.41, Stats., the permittee shall construct the treatment plant upgrades in accordance with the approved plans and specifications.	04/30/2027
Construction Upgrade Progress Report: The permittee shall submit a progress report on construction upgrades.	11/30/2027
Complete Construction: The permittee shall complete construction of system upgrades necessary to achieve compliance with the effluent limitations and notify the department of completion via email.	05/31/2028

5 Standard Requirements

Chapter NR 205, Wisconsin Administrative Code (Conditions for Industrial Dischargers): The conditions in ss. NR 205.07(1) and NR 205.07(3), Wis. Adm. Code, are included by reference in this permit. The permittee shall comply with all of these requirements. Some of these requirements are outlined in the Standard Requirements section of this permit. Requirements not specifically outlined in the Standard Requirement section of this permit can be found in ss. NR 205.07(1) and NR 205.07(3), Wis. Adm. Code.

5.1 Reporting and Monitoring Requirements

5.1.1 Monitoring Results

Monitoring results obtained during the previous month shall be summarized and reported on a Department Wastewater Discharge Monitoring Report. The report may require reporting of any or all of the information specified below under 'Recording of Results'. This report is to be returned to the Department no later than the date indicated on the form. A copy of the Wastewater Discharge Monitoring Report Form or an electronic file of the report shall be retained by the permittee.

Monitoring results shall be reported on an electronic discharge monitoring report (eDMR). The eDMR shall be certified electronically by a responsible executive or officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The 'eReport Certify' page certifies that the electronic report form is true, accurate and complete.

If the permittee monitors any pollutant more frequently than required by this permit, the results of such monitoring shall be included on the Wastewater Discharge Monitoring Report.

The permittee shall comply with all limits for each parameter regardless of monitoring frequency. For example, monthly, weekly, and/or daily limits shall be met even with monthly monitoring. The permittee may monitor more frequently than required for any parameter.

5.1.2 Sampling and Testing Procedures

Sampling and laboratory testing procedures shall be performed in accordance with Chapters NR 218 and NR 219, Wis. Adm. Code, and completed by a laboratory certified or registered in accordance with the requirements of ch. NR 149, Wis. Adm. Code. Groundwater sampling shall be performed in accordance with procedures contained in s. NR 140.16, Wis. Adm. Code, and the WDNR publications, Groundwater Sampling Desk Reference (PUBL-DG-037-96) and Groundwater Sampling Field Manual (PUBL-DG-038-96). The analytical methodologies used shall enable the laboratory to quantitate all substances for which monitoring is required at levels below the effluent limitation and/or groundwater standard. If the required level cannot be met by any of the methods available in ch. NR 219, Wis. Adm. Code, then the method with the lowest limit of detection shall be selected. Additional test procedures may be specified in this permit.

5.1.3 Recording of Results

The permittee shall maintain records which provide the following information for each effluent measurement or sample taken:

- The date, exact place, method and time of sampling or measurements;
- The individual who performed the sampling or measurements;
- The date the analysis was performed;
- The individual who performed the analysis;
- The analytical techniques or methods used; and

• The results of the analysis.

5.1.4 Reporting of Monitoring Results

The permittee shall use the following conventions when reporting effluent monitoring results:

- Pollutant concentrations less than the limit of detection shall be reported as < (less than) the value of the limit of detection. For example, if a substance is not detected at a detection limit of 0.1 mg/L, report the pollutant concentration as < 0.1 mg/L.
- Pollutant concentrations equal to or greater than the limit of detection, but less than the limit of quantitation, shall be reported and the limit of quantitation shall be specified.
- For purposes of calculating fees under ch. NR 101, Wis. Adm. Code, a reporting limit of 2.0 mg/L for BOD₅ and 2.5 mg/L Total Suspended Solids shall be considered to be limits of quantitation.
- For the purposes of reporting a calculated result, average or a mass discharge value, the permittee may substitute a "0" (zero) for any pollutant concentration that is less than the limit of detection. However, if the effluent limitation is less than the limit of detection, the department may substitute a value other than zero for results less than the limit of detection, after considering the number of monitoring results that are greater than the limit of detection and if warranted when applying appropriate statistical techniques.
- If no discharge occurs through an outfall, flow related parameters (e.g. flow rate, hydraulic application rate, volume, etc.) should be reported as "0" (zero) at the required sample frequency specified for the outfall. For example: if the sample frequency is daily, "0" would be reported for any day during the month that no discharge occurred.

5.1.5 Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings or electronic data records for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit for a period of at least 3 years from the date of the sample, measurement, report or application, except for sludge management forms and records, which shall be kept for a period of at least 5 years.

5.1.6 Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or correct information to the Department.

5.1.7 Reporting Requirements – Alterations or Additions

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is only required when:

- The alteration or addition to the permitted facility may meet one of the criteria for determining whether a facility is a new source.
- The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification requirement applies to pollutants which are not subject to effluent limitations in the existing permit.
- The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use of disposal sites not reported during the permit application process nor reported pursuant to an approved land application plan. Additional sites may not be used for the land application of sludge until department approval is received.

5.2 System Operating Requirements

5.2.1 Noncompliance Reporting

The permittee shall report the following types of noncompliance by a telephone call to the Department's regional office within 24 hours after becoming aware of the noncompliance:

- Any noncompliance which may endanger health or the environment;
- Any violation of an effluent limitation resulting from a bypass;
- Any violation of an effluent limitation resulting from an upset; and
- Any violation of a maximum discharge limitation for any of the pollutants listed by the Department in the permit, either for effluent or sludge.

A written report describing the noncompliance shall also be submitted to the Department as directed at the end of this permit within 5 days after the permittee becomes aware of the noncompliance. On a case-by-case basis, the Department may waive the requirement for submittal of a written report within 5 days and instruct the permittee to submit the written report with the next regularly scheduled monitoring report. In either case, the written report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; the steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance; and if the noncompliance has not been corrected, the length of time it is expected to continue.

A scheduled bypass approved by the Department under the 'Scheduled Bypass' section of this permit shall not be subject to the reporting required under this section.

NOTE: Section 292.11(2)(a), Wisconsin Statutes, requires any person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance to notify the Department of Natural Resources immediately of any discharge not authorized by the permit. The discharge of a hazardous substance that is not authorized by this permit or that violates this permit may be a hazardous substance spill. To report a hazardous substance spill, call DNR's 24-hour HOTLINE at 1-800-943-0003.

5.2.2 Bypass

Except for a controlled diversion as provided in the 'Controlled Diversions' section of this permit, any bypass is prohibited and the Department may take enforcement action against a permittee for such occurrences under s. 283.89, Wis. Stats. The Department may approve a bypass if the permittee demonstrates all the following conditions apply:

- The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities or adequate back-up equipment, retention of untreated wastes, reduction of inflow and infiltration, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. When evaluating feasibility of alternatives, the department may consider factors such as technical achievability, costs and affordability of implementation and risks to public health, the environment and, where the permittee is a municipality, the welfare of the community served; and
- The bypass was reported in accordance with the 'Noncompliance Reporting' section of this permit.

5.2.3 Scheduled Bypass

Whenever the permittee anticipates the need to bypass for purposes of efficient operations and maintenance and the permittee may not meet the conditions for controlled diversions in the 'Controlled Diversions' section of this permit, the permittee shall obtain prior written approval from the Department for the scheduled bypass. A permittee's written request for Department approval of a scheduled bypass shall demonstrate that the conditions for unscheduled bypassing are met and include the proposed date and reason for the bypass, estimated volume and duration of the

bypass, alternatives to bypassing and measures to mitigate environmental harm caused by the bypass. The department may require the permittee to provide public notification for a scheduled bypass if it is determined there is significant public interest in the proposed action and may recommend mitigation measures to minimize the impact of such bypass.

5.2.4 Controlled Diversions

Controlled diversions are allowed only when necessary for essential maintenance to assure efficient operation provided the following requirements are met:

- Effluent from the wastewater treatment facility shall meet the effluent limitations established in the permit.
 Wastewater that is diverted around a treatment unit or treatment process during a controlled diversion shall be recombined with wastewater that is not diverted prior to the effluent sampling location and prior to effluent discharge;
- A controlled diversion may not occur during periods of excessive flow or other abnormal wastewater characteristics;
- A controlled diversion may not result in a wastewater treatment facility overflow; and
- All instances of controlled diversions shall be documented in wastewater treatment facility records and such records shall be available to the department on request.

5.2.5 Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training as required in ch. NR 114, Wis. Adm. Code, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

5.2.6 Operator Certification

The wastewater treatment facility shall be under the direct supervision of a state certified operator. In accordance with s. NR 114.53, Wis. Adm. Code, every WPDES permitted treatment plant shall have a designated operator-in-charge holding a current and valid certificate. The designated operator-in-charge shall be certified at the level and in all subclasses of the treatment plant, except laboratory. Treatment plant owners shall notify the department of any changes in the operator-in-charge within 30 days. Note that s. NR 114.52(22), Wis. Adm. Code, lists types of facilities that are excluded from operator certification requirements (i.e. private sewage systems, pretreatment facilities discharging to public sewers, industrial wastewater treatment that consists solely of land disposal, agricultural digesters and concentrated aquatic production facilities with no biological treatment).

5.2.7 Spill Reporting

The permittee shall notify the Department in accordance with ch. NR 706 (formerly NR 158), Wis. Adm. Code, in the event that a spill or accidental release of any material or substance results in the discharge of pollutants to the waters of the state at a rate or concentration greater than the effluent limitations established in this permit, or the spill or accidental release of the material is unregulated in this permit, unless the spill or release of pollutants has been reported to the Department in accordance with s. NR 205.07 (1)(s), Wis. Adm. Code.

5.2.8 Planned Changes

In accordance with ss. 283.31(4)(b) and 283.59, Stats., the permittee shall report to the Department any facility expansion, production increase or process modifications which will result in new, different or increased discharges of pollutants. The report shall either be a new permit application, or if the new discharge will not violate the effluent limitations of this permit, a written notice of the new, different or increased discharge. The notice shall contain a

description of the new activities, an estimate of the new, different or increased discharge of pollutants and a description of the effect of the new or increased discharge on existing waste treatment facilities. Following receipt of this report, the Department may modify this permit to specify and limit any pollutants not previously regulated in the permit.

5.2.9 Duty to Halt or Reduce Activity

Upon failure or impairment of treatment facility operation, the permittee shall, to the extent necessary to maintain compliance with its permit, curtail production or wastewater discharges or both until the treatment facility operations are restored or an alternative method of treatment is provided.

5.3 Surface Water Requirements

5.3.1 Permittee-Determined Limit of Quantitation Incorporated into this Permit

For pollutants with water quality-based effluent limits below the Limit of Quantitation (LOQ) in this permit, the LOQ calculated by the permittee and reported on the Discharge Monitoring Reports (DMRs) is incorporated by reference into this permit. The LOQ shall be reported on the DMRs, shall be the lowest quantifiable level practicable, and shall be no greater than the minimum level (ML) specified in or approved under 40 CFR Part 136 for the pollutant at the time this permit was issued, unless this permit specifies a higher LOQ.

5.3.2 Appropriate Formulas for Effluent Calculations

The permittee shall use the following formulas for calculating effluent results to determine compliance with average concentration limits and mass limits and total load limits:

Weekly/Monthly/Six-Month/Annual Average Concentration = the sum of all daily results for that week/month/six-month/year, divided by the number of results during that time period. [Note: When a six-month average effluent limit is specified for Total Phosphorus the applicable periods are May through October and November through April, except in cases of Water Quality Trading, wherein the applicable periods are January through June and July through December.]

Weekly Average Mass Discharge (lbs/day): Daily mass = daily concentration (mg/L) x daily flow (MGD) x 8.34, then average the daily mass values for the week.

Monthly Average Mass Discharge (lbs/day): Daily mass = daily concentration (mg/L) x daily flow (MGD) x 8.34, then average the daily mass values for the month.

Six-Month Average Mass Discharge (lbs/day): Daily mass = daily concentration (mg/L) x daily flow (MGD) x 8.34, then average the daily mass values for the six-month period. [Note: When a six-month average effluent limit is specified for Total Phosphorus the applicable periods are May through October and November through April.]

Annual Average Mass Discharge (lbs/day): Daily mass = daily concentration (mg/L) x daily flow (MGD) x 8.34, then average the daily mass values for the entire year.

Total Monthly Discharge: = monthly average concentration (mg/L) x total flow for the month (MG/month) x 8.34.

Total Annual Discharge: = sum of total monthly discharges for the calendar year.

12-Month Rolling Sum of Total Monthly Discharge: = the sum of the most recent 12 consecutive months of Total Monthly Discharges.

5.3.3 Effluent Temperature Requirements

Weekly Average Temperature – If temperature limits are included in this permit, Weekly Average Temperature shall be calculated as the sum of all daily maximum results for that week divided by the number of daily maximum results during that time period.

Cold Shock Standard – Water temperatures of the discharge shall be controlled in a manner as to protect fish and aquatic life uses from the deleterious effects of cold shock pursuant to Wis. Adm. Code, s. NR 102.28. 'Cold Shock' means exposure of aquatic organisms to a rapid decrease in temperature and a sustained exposure to low temperature that induces abnormal behavior or physiological performance and may lead to death.

Rate of Temperature Change Standard – Temperature of a water of the state or discharge to a water of the state may not be artificially raised or lowered at such a rate that it causes detrimental health or reproductive effects to fish or aquatic life of the water of the state pursuant to Wis. Adm. Code, s. NR 102.29.

5.3.4 Visible Foam or Floating Solids

There shall be no discharge of floating solids or visible foam in other than trace amounts.

5.3.5 Surface Water Uses and Criteria

In accordance with NR 102.04, Wis. Adm. Code, surface water uses and criteria are established to govern water management decisions. Practices attributable to municipal, industrial, commercial, domestic, agricultural, land development or other activities shall be controlled so that all surface waters including the mixing zone meet the following conditions at all times and under all flow and water level conditions:

- Substances that will cause objectionable deposits on the shore or in the bed of a body of water, shall not be present in such amounts as to interfere with public rights in waters of the state.
- Floating or submerged debris, oil, scum or other material shall not be present in such amounts as to interfere with public rights in waters of the state.
- Materials producing color, odor, taste or unsightliness shall not be present in such amounts as to interfere with public rights in waters of the state.
- Substances in concentrations or in combinations which are toxic or harmful to humans shall not be present in amounts found to be of public health significance, nor shall substances be present in amounts which are acutely harmful to animal, plant or aquatic life.

5.3.6 Chloride Notification

The permittee shall notify the Department in writing of any proposed changes which may affect the characteristics of the wastewater, which results in an increase in the concentration of chloride, under the authority of sections 283.31(4)(b) and 283.59(1), Stats. This notification shall include a description of the proposed source of chlorides and the anticipated increase in concentration. Following receipt of the notification, the Department may propose a modification to the permit.

5.3.7 Total Residual Chlorine Requirements

When total residual chlorine (TRC) limit(s) or monitoring are included in a permit, the permittee shall comply with the following conditions:

- The permittee shall perform TRC monitoring required in this permit using an approved method from ch. NR 219, Wis. Adm. Code, which produces a detection limit that is less than or equal to the permitted limit or produces the lowest economically feasible detection limit if the approved methods cannot meet the permit limit. If the facility cannot achieve a detection limit less than or equal to the permit limit using the approved methods, contact the laboratory accreditation program for guidance.
- The permittee shall determine the limit of detection (LOD) as specified in s. NR 149.48 (2)(b), Wis. Adm. Code, or the permittee shall contact the laboratory accreditation program for information on how to determine a verified detection limit allowed just for TRC. If the verified detection limit is determined using the special procedure, then the LOD and limit of quantitation (LOQ) shall be set to be equal to the verified detection limit determined from this special procedure.

- The permittee shall determine compliance with the TRC limit(s) as follows:
 - a) If the facility determines a statistical LOD as specified in s. NR 149.48 (2)(b), Wis. Adm. Code, and the measured TRC levels are less than the LOD, the permittee shall report the results as less than the LOD (<LOD). For this situation the LOQ shall be established at 3.33 times the LOD or at the concentration of the lowest standard in the calibration curve. TRC levels that are < LOD are in compliance with the TRC limit.</p>
 - b) If the facility determines the verified detection limit using the laboratory accreditation program special procedure, this verified detection limit shall be reported as the LOD and LOQ. If the measured TRC levels are less than the LOD, the permittee shall report the results as < LOD. TRC levels that are < LOD are in compliance with the TRC limit.
 - c) If the facility determines the statistical LOD as specified in s. NR 149.48 (2)(b), Wis. Adm. Code, and the measured TRC levels are greater than the statistical LOD but less than the LOQ, TRC levels are in compliance with the TRC limit except when the measured levels are consistently reported between the LOD and LOQ. When the measured TRC levels are consistently reported between the LOD and LOQ, the facility shall take action to determine the reliability of detected results (such as resampling and/or recalculating dosages) and shall adjust the chemical feed system if necessary to reduce the chances of detecting levels between the statistical LOD and LOQ.
 - d) If the facility determines the statistical LOQ as specified in s. NR 149.48 (2)(b), Wis. Adm. Code, or determines the verified detection limit using the laboratory accreditation program special procedure, TRC measured levels that are greater than the statistical LOQ and the TRC limit, are not in compliance with the TRC limit. The permittee shall report the level as a limit exceedance.
 - e) If the facility determines the statistical LOD as specified in s. NR 149.48 (2)(b), Wis. Adm. Code, and the measured level is < LOD, then a "0" (zero) value may be substituted for any test result less than the statistical LOD when calculating the average or mass discharge values. Calculated values shall then be compared directly to the average or mass limits to determine compliance.
 - f) If the facility determines the verified detection limit using the laboratory accreditation program special procedure and the measured level is < LOD (set equal to the verified detection limit), then a "0" (zero) value may be substituted for any test result less than the LOD when calculating the average or mass discharge values. Calculated values shall then be compared directly to the average or mass limits to determine compliance.

5.3.8 Compliance with Phosphorus Limitation

Compliance with the concentration limitation for phosphorus shall be determined as a rolling twelve-month average and shall be calculated as follows:

First, determine the pounds of phosphorus for an individual month by multiplying the average of all the concentration values for phosphorus (in mg/L) for that month by the total flow for the month in Million Gallons times the conversion factor of 8.34.

Then, the monthly pounds of phosphorus determined in this manner shall be summed for the most recent 12 months and inserted into the numerator of the following equation.

Average concentration of P in $mg/L = \underline{\text{Total lbs of P discharged (most recent 12 months)}}$

Total flow in MG (most recent 12 months) X 8.34

The compliance calculation shall be performed each month with a reported discharge volume after substituting data from the most recent month(s) for the oldest month(s). A calculated value in excess of the concentration limitation will be considered equivalent to a violation of a monthly average.

5.3.9 Additives

In the event that the permittee wishes to commence use of a water treatment additive, or increase the usage of the additives greater than indicated in the permit application, the permittee must get a written approval from the Department prior to initiating such changes. This written approval shall provide authority to utilize the additives at the specific rates until the permit can be either reissued or modified in accordance with s. 283.53, Stats. Restrictions on the use of the additives may be included in the authorization letter.

5.3.10 Whole Effluent Toxicity (WET) Monitoring Requirements

In order to determine the potential impact of the discharge on aquatic organisms, static-renewal toxicity tests shall be performed on the effluent in accordance with the procedures specified in the "State of Wisconsin Aquatic Life Toxicity Testing Methods Manual, 2nd Edition" (PUB-WT-797, November 2004) as required by NR 219.04, Table A, Wis. Adm. Code). All of the WET tests required in this permit, including any required retests, shall be conducted on the Ceriodaphnia dubia and fathead minnow species. Receiving water samples shall not be collected from any point in contact with the permittee's mixing zone and every attempt shall be made to avoid contact with any other discharge's mixing zone.

5.3.11 Whole Effluent Toxicity (WET) Identification and Reduction

Within 60 days of a retest which showed positive results, the permittee shall submit a written report to the Biomonitoring Coordinator, Bureau of Water Quality, 101 S. Webster St., PO Box 7921, Madison, WI 53707-7921, which details the following:

- A description of actions the permittee has taken or will take to remove toxicity and to prevent the recurrence of toxicity;
- A description of toxicity reduction evaluation (TRE) investigations that have been or will be done to identify potential sources of toxicity, including the following actions:
 - a) Evaluate the performance of the treatment system to identify deficiencies contributing to effluent toxicity (e.g., operational problems, chemical additives, incomplete treatment)
 - b) Identify the compound(s) causing toxicity. Conduct toxicity screening tests on the effluent at a minimum of once per month for six months to determine if toxicity recurs. Screening tests are WET tests using fewer effluent concentrations conducted on the most sensitive species. If any of the screening tests contain toxicity, conduct a toxicity identification evaluation (TIE) to determine the cause. TIE methods are available from USEPA "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures (EPA/600/6-91/003) and "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F).
 - c) Trace the compound(s) causing toxicity to their sources (e.g., industrial, commercial, domestic)
 - d) Evaluate, select, and implement methods or technologies to control effluent toxicity (e.g., in-plant or pretreatment controls, source reduction or removal)
- Where corrective actions including a TRE have not been completed, an expeditious schedule under which corrective actions will be implemented;
- If no actions have been taken, the reason for not taking action.

The permittee may also request approval from the Department to postpone additional retests in order to investigate the source(s) of toxicity. Postponed retests must be completed after toxicity is believed to have been removed.

5.4 Land Application Requirements

5.4.1 General Sludge Management Information

The General Sludge Management Form 3400-48 shall be completed and submitted prior to any significant sludge management changes.

5.4.2 Land Application Characteristic Report

The analytical results from testing of liquid wastes, by-product solids and sludges that are land applied shall be reported annually on the Characteristic Report Form 3400-49. The report form shall be submitted electronically no later than the date indicated on the form. Following submittal of the electronic Characteristic Report Form 3400-49, this form shall be certified electronically via the 'eReport Certify' page by a responsible executive officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The 'eReport Certify' page certifies that the electronic report form is true, accurate and complete. The permittee shall use the following convention when reporting sludge monitoring results: Pollutant concentrations less than the limit of detection shall be reported as < (less than) the value of the limit of detection. For example, if a substance is not detected at a detection limit of 1.0 mg/kg, report the pollutant concentration as < 1.0 mg/kg. All sludge results shall be reported on a dry weight basis.

5.4.3 Annual Land Application Report

The annual totals for the land application loadings of liquid wastes, by-product solids and sludges to field spreading sites shall be submitted electronically on the Annual Land Application Report Form 3400-55 by January 31, each year whether or not waste is land applied. Following submittal of the electronic Annual Land Application Report Form 3400-55, this form shall be certified electronically via the 'eReport Certify' page by a responsible executive officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The 'eReport Certify' page certifies that the electronic report form is true, accurate and complete.

5.4.4 Other Methods of Disposal or Distribution Report

The permittee shall submit electronically the Other Methods of Disposal or Distribution Report Form 3400-52 by January 31, each year whether or not waste is hauled to another facility, landfilled, incinerated, or stored in a manure pit. Following submittal of the electronic Report Form 3400-52, this form shall be certified electronically via the 'eReport Certify' page by a responsible executive officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The 'eReport Certify' page certifies that the electronic report form is true, accurate and complete.

5.4.5 Land Application Site Approval

The permittee is authorized to landspread permitted liquid wastes, by-product solids and sludges on sites approved in writing by the Department in accordance with ss. NR 214.17(2) and 214.18(2), Wis. Adm. Code. Any site use restrictions or granting of case-by-case exceptions shall be identified in the approval letter. If the permittee wishes to have approval for additional sites, application shall be made using Land Application Site Request Form 3400-053. Complete information shall be submitted about each site, including location maps and soil maps, any soil analyses results and other information showing that the site complies with all application requirements and permit conditions. Spreading on a site may commence upon receipt of Department approval. If an existing spreading site is found by the Department to be environmentally unacceptable, a written notice will be issued to withdraw approval of that site.

5.4.6 Operating Requirements/Management Plan

All land application sites used for treatment of liquid wastes, by-product solids and sludges shall be operated in accordance with a Department approved management plan. The management plan shall be consistent with the requirements of this permit, ss. NR 214.17 (3) and (6), and NR 214.18 (3) and (6), Wis. Adm. Code. If operational changes are needed, the land application management plan shall be amended by submitting a written request to the

Department for approval. A land application management plan shall be submitted for approval at least 60 days prior to land application.

5.4.7 Chloride Requirements for Liquid Wastes and By-Product Solids

The total pounds of chloride applied shall be limited to 340 pounds per acre per 2 year period. Calculate the chloride loading as follows:

Wet Weight Solids: <u>lbs of solids X %solids X %chloride</u> = lbs chloride/acre acres land applied X 100 X 100

Liquid: $\frac{\text{mg/L chloride X (millions of gallons) X 8.34}}{\text{acres land applied}}$ = lbs chloride/acre

5.4.8 Nitrogen Requirements for Liquid Wastes and By-Product Solids and Sludges

NR 214.17(4) and NR 214.18(4) Wis. Adm. Code specify that the total pounds of nitrogen land applied per acre per year shall be limited to the nitrogen needs of the cover crop minus any other nitrogen added to the land application site, including fertilizer or manure. Nitrogen applied can be calculated on the basis of plant available nitrogen, as long as the release of nitrogen from the organic material is credited to future years. This permit requires that the Total Kjeldahl Nitrogen calendar year application amount shall not exceed 165 pounds per acre per year, except when alternate numerical nitrogen loading limits (consistent with the above sections of NR 214) are approved in writing via the Department's land application management plan approval. Calculate nitrogen loading as follows ("TKN" represents "Total Kjeldahl Nitrogen"):

Wet Weight Solids and Sludges: <u>lbs of solids X % solids X % TKN</u> = lbs TKN/acre acres land applied X 100 X 100

Liquid: mg/L TKN X (millions of gallons) X 8.34 = lbs TKN/acre acres land applied

5.4.9 Ponding

The volume of liquid wastes land applied shall be limited to prevent ponding, except for temporary conditions following rainfall events. If ponding occurs all land application shall cease immediately. The permittee shall land apply only the liquid wastes that are permitted.

5.4.10 Runoff

The volume of liquid wastes land applied shall be limited to prevent runoff. If runoff occurs all land application shall cease immediately. The permittee shall land apply only the liquid wastes that are permitted.

5.4.11 Soil Incorporation Requirements

- Liquid Sludge Requirements: The Department may require that liquid sludge be incorporated into the soil on
 specific land application sites when necessary to prevent surface runoff or objectionable odors. Requirements
 and procedures for incorporation of liquid sludge, when such incorporation may be necessary, shall be
 specified in the management plan or in specific site applications, subject to Department approval. The
 permittee shall comply with the requirements in the Department approved management plan, specific siteapproval requirements and the terms and conditions of this permit.
- Cake Sludge Requirements: After land application, cake sludge shall be incorporated into the soil. The timing of such incorporation and other related requirements and procedures shall be specified in the management plan or in specific site applications, subject to Department approval. The permittee shall comply with the

requirements in the Department approved management plan, specific site-approval requirements and the terms and conditions of this permit.

- Liquid Wastewater Requirements: The Department may require that liquid wastewater be incorporated or injected into the soil on specific land application sites when necessary to prevent surface runoff or objectionable odors. Requirements and procedures for injection or incorporation of liquid wastewater, when such injection or incorporation is necessary, shall be specified in the management plan or in specific site applications, subject to Department approval. The permittee shall comply with the requirements in the Department approved management plan, specific site-approval requirements and the terms and conditions of this permit.
- By-Product Solids Requirements: The Department may limit the volume of by-products solids that are landspread on a specific site when necessary to prevent surface runoff or leaching of contaminants to groundwater and objectionable odors. By-product solids shall, after application, be plowed, disced, or otherwise incorporated into the soil. Requirements and procedures for the incorporation of byproduct solids into the soil shall be specified in the management plan or in specific site applications, subject to Department approval. The permittee shall comply with the requirements in the Department approved management plan, specific site-approval requirements and the terms and conditions of this permit.

5.4.12 Field Stockpiles

The permittee is encouraged to landspread the by-product solids or sludges as they are transported to the fields; but if it becomes necessary to stockpile solids in the fields, the stockpiles shall be spread within 72 hours or as specified in the approved management plan.

5.4.13 Additional Requirements from ch. NR 214, Wis. Adm. Code

The requirements of s. NR 214.17 (4)(c) [pathogen prohibition for human consumption crop fields], (4)(d)1 [no adverse soil effects], (4)(d)10 [allowable whey spreading rates], and (4)(e)1-3 [by-product solids spreading within agricultural practices and not cause contamination] for landspreading of liquid wastes and by product solids and s. NR 214.18 (4)(b),(d)-(h) [application, nutrient, pH, metals, and PCB limitations] for sludge spreading systems are included by reference in this permit. The permittee shall comply with these requirements.

6 Summary of Reports Due

FOR INFORMATIONAL PURPOSES ONLY

Description	Date	Page
Ammonia Compliance Schedule -Report on Effluent Discharges	June 30, 2024	8
Ammonia Compliance Schedule -Action Plan	January 31, 2026	8
Ammonia Compliance Schedule -Submit Design Report for Upgrade	September 30, 2026	8
Ammonia Compliance Schedule -Submit Final Plans and Specifications	September 30, 2026	8
Ammonia Compliance Schedule -Initiate Construction	April 30, 2027	8
Ammonia Compliance Schedule -Construction Upgrade Progress Report	November 30, 2027	8
Ammonia Compliance Schedule -Complete Construction	May 31, 2028	8
Land Application Management Plan -Updated Land Application Management Plan	See Permit	8
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Waterway Inspection	See Permit	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Report on Effluent Discharges	January 31, 2026	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Waterway Follow-up Repair Actions	See Permit	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Action Plan	March 31, 2026	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Initiate Actions	June 30, 2026	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Annual Waterway Inspection Reports	See Permit	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Annual Waterway Inspection Report	January 31, 2024	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Progress Report	June 30, 2027	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Complete Actions	March 31, 2028	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Annual Waterway Inspection Report	January 31, 2025	9
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Annual Waterway Inspection Report	January 31, 2026	10
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Annual Waterway Inspection Report	January 31, 2027	10
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting - Annual Waterway Inspection Report	January 31, 2028	10
Quarterly Waterway Inspection, Follow-up Repair Actions and Reporting -	See Permit	10

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	Westby Coop Ci	reamery
Annual Inspections After Permit Expiration		
Total Suspended Solids Compliance Schedule -Action Plan	January 31, 2026	10
Total Suspended Solids Compliance Schedule -Submit Design Report for Upgrade	September 30, 2026	10
Total Suspended Solids Compliance Schedule -Submit Final Plans and Specifications	September 30, 2026	10
Total Suspended Solids Compliance Schedule -Initiate Construction	April 30, 2027	10
Total Suspended Solids Compliance Schedule -Construction Upgrade Progress Report	November 30, 2027	10
Total Suspended Solids Compliance Schedule -Complete Construction	May 31, 2028	10
General Treatment Plant Compliance Schedule -Submit Progress/Action Report	January 31, 2026	10
General Treatment Plant Compliance Schedule -Submit Design Report for Upgrade	September 30, 2026	11
General Treatment Plant Compliance Schedule -Submit Final Plans and Specifications	September 30, 2026	11
General Treatment Plant Compliance Schedule -Initiate Construction	April 30, 2027	11
General Treatment Plant Compliance Schedule -Construction Upgrade Progress Report	November 30, 2027	11
General Treatment Plant Compliance Schedule -Complete Construction	May 31, 2028	11
General Sludge Management Form 3400-48	prior to any significant sludge management changes	20
Characteristic Report Form 3400-49	no later than the date indicated on the form	20
Land Application Report Form 3400-55	January 31, each year whether or not waste is land applied	20
Other Methods of Disposal or Distribution Report Form 3400-52	by January 31, each year whether or not waste is hauled to another facility, landfilled, incinerated, or stored in a manure pit	20
Wastewater Discharge Monitoring Report	no later than the date indicated on the form	12

Report forms shall be submitted electronically in accordance with the reporting requirements herein. Any facility plans or plans and specifications for municipal, industrial, industrial pretreatment and non industrial wastewater systems shall be submitted to the Bureau of Water Quality, P.O. Box 7921, Madison, WI 53707-7921. All <u>other</u> submittals required by this permit shall be submitted to: West Central Region - La Crosse, 3550 Mormon Coulee Road, La Crosse, WI 54601.

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