EXPIRATION DATE – March 31, 2030



WPDES PERMIT

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

PERMIT TO DISCHARGE UNDER THE WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM

Village of Potter

is permitted, under the authority of Chapter 283, Wisconsin Statutes, to discharge from a facility located at 320 Pheasant St, Potter, WI

to

an unnamed tributary (Water Body Identification Code number 76500) to the North Branch of the Manitowoc River, in the North Branch Manitowoc River Watershed (MA04) of the Manitowoc River Basin

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.

| He | idi Schmitt Ma | rquez | | |
|----|-----------------|------------|---|--|
| W | astewater Field | Supervisor | • | |
| | | | | |

PERMIT TERM: EFFECTIVE DATE - April 01, 2025

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1 Influent Requirements

1.1 Sampling Point(s)

| | Sampling Point Designation | | | | | | |
|----------|--|--|--|--|--|--|--|
| Sampling | Sampling Point Location, Waste Type/Sample Contents and Treatment Description (as | | | | | | |
| Point | applicable) | | | | | | |
| Number | | | | | | | |
| 701 | INFLUENT - Raw wastewater from the Village of Potter's sanitary sewage collection system. At | | | | | | |
| | Sampling Point 701, the permittee shall collect representative grab composite samples of the influent | | | | | | |
| | from the splitter box to the aeration basin following pumping from the main influent lift station until | | | | | | |
| | March 31, 2029. Starting on April 1, 2029, the permittee shall collect representative samples of the | | | | | | |
| | influent from the automatic composite sampler drawing 24-hour flow proportional composite samples | | | | | | |
| | from a sampling location prior to the aeration basin. Starting on April 1, 2029, the permittee shall | | | | | | |
| | measure the influent flow rate with a continuous flow recording device from a sampling location prior to | | | | | | |
| | the aeration basin. | | | | | | |

1.2 Monitoring Requirements

The permittee shall comply with the following monitoring requirements.

1.2.1 Sampling Point 701 - INFLUENT

| | Monitoring Requirements and Limitations | | | | | | | |
|-------------|---|--------------------|---------------------|-------------------------|--|--|--|--|
| Parameter | Limit Type | Limit and Units | Sample Frequency | Sample Type | Notes | | | |
| Flow Rate | | MGD | Daily | Continuous | The Flow Rate sample type shall be reported as "Continuous" starting April 1, 2029. See also the Install Continuous Flow Recording Device and Influent Composite Sampler Schedule. | | | |
| BODs, Total | | mg/L | Weekly | 3-Hr Comp | The sample type shall be "3-Hr Comp" until March 31, 2029. See also the Install Continuous Flow Recording Device and Influent Composite Sampler Schedule. | | | |
| BODs, Total | | mg/L | Weekly | 24-Hr Flow Prop Comp | The sample type shall be "24-Hr Flow Prop Comp" starting April 1, 2029. See also the Install Continuous Flow Recording Device and Influent Composite Sampler Schedule. | | | |

| | Monitoring Requirements and Limitations | | | | | | | |
|----------------------------|---|--------------------|---------------------|-------------------------|--|--|--|--|
| Parameter | Limit Type | Limit and Units | Sample Frequency | Sample Type | Notes | | | |
| Suspended Solids, Total | | mg/L | Weekly | 3-Hr Comp | The sample type shall be "3-Hr Comp" until March 31, 2029. See also the Install Continuous Flow Recording Device and Influent Composite Sampler Schedule. | | | |
| Suspended Solids, Total | | mg/L | Weekly | 24-Hr Flow Prop Comp | The sample type shall be "24-Hr Flow Prop Comp" starting April 1, 2029. See also the Install Continuous Flow Recording Device and Influent Composite Sampler Schedule. | | | |

2 Surface Water Requirements

2.1 Sampling Point(s)

| | Sampling Point Designation | | | | | | |
|----------|---|--|--|--|--|--|--|
| Sampling | Sampling Point Location, Waste Type/Sample Contents and Treatment Description (as | | | | | | |
| Point | applicable) | | | | | | |
| Number | | | | | | | |
| 001 | EFFLUENT - At Sampling Point 001, the permittee shall collect representative samples of effluent from the effluent automatic composite sampler drawing 24-hour flow proportional composite samples from the former chlorine contact tank except that the permittee shall collect representative grab samples of the effluent after the v-notched weir and cascade step aerator for pH, dissolved oxygen, and temperature prior to being discharged to the unnamed tributary to the North Branch of the Manitowoc River via Outfall 001. The permittee shall measure the effluent flow rate using a continuous flow recording device after the former chlorine contact tank. | | | | | | |

2.2 Monitoring Requirements and Effluent Limitations

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

2.2.1 Sampling Point (Outfall) 001 - EFFLUENT

| | Monitoring Requirements and Effluent Limitations | | | | | | | |
|--------------------------|--|-------------|-----------|------------|-------------------------------|--|--|--|
| Parameter | Limit Type | Limit and | Sample | Sample | Notes | | | |
| | | Units | Frequency | Type | | | | |
| Flow Rate | | MGD | Daily | Continuous | | | | |
| BOD ₅ , Total | Weekly Avg | 30 mg/L | Weekly | 24-Hr Flow | | | | |
| | | | | Prop Comp | | | | |
| BOD ₅ , Total | Monthly Avg | 20 mg/L | Weekly | 24-Hr Flow | | | | |
| | | | | Prop Comp | | | | |
| Suspended Solids, | Weekly Avg | 30 mg/L | Weekly | 24-Hr Flow | | | | |
| Total | | | | Prop Comp | | | | |
| Suspended Solids, | Monthly Avg | 20 mg/L | Weekly | 24-Hr Flow | | | | |
| Total | | | | Prop Comp | | | | |
| Suspended Solids, | Weekly Avg | 14 lbs/day | Weekly | Calculated | | | | |
| Total | | | | | | | | |
| Suspended Solids, | Monthly Avg | 8.4 lbs/day | Weekly | Calculated | | | | |
| Total | | | | | | | | |
| Suspended Solids, | | lbs/month | Monthly | Calculated | Calculate the Total | | | |
| Total | | | | | Monthly Discharge of TSS | | | |
| | | | | | and report on the last day of | | | |
| | | | | | the month on the eDMR. | | | |
| | | | | | See TMDL Calculations | | | |
| | | | | | section. | | | |

| | | ing Requiremen | | | I |
|----------------------------|--------------------------------|----------------|-----------|-------------------------|---|
| Parameter | Limit Type | Limit and | Sample | Sample | Notes |
| | | Units | Frequency | Type | |
| Suspended Solids, Total | | lbs/yr | Monthly | Calculated | Calculate the 12-month rolling sum of total monthly mass of TSS discharged and report on the last day of the month on the eDMR. See TMDL Calculations section. |
| pH Field | Daily Min | 6.0 su | 5/Week | Grab | |
| pH Field | Daily Max | 9.0 su | 5/Week | Grab | |
| Dissolved Oxygen | Daily Min | 4.0 mg/L | 5/Week | Grab | |
| E. coli | Geometric Mean - Monthly | 126 #/100 ml | Weekly | Grab | Monitoring and limit effective May through September annually per the Effluent Limitations for E. coli Schedule. |
| E. coli | % Exceedance | 10 Percent | Monthly | Calculated | Monitoring and limit effective May through September annually per the Effluent Limitations for E. coli Schedule. See the E. coli Percent Limit section. Enter the result in the eDMR on the last day of the month. |
| Chloride | Weekly Avg | 450 mg/L | 4/Month | 24-Hr Flow Prop Comp | Interim limit. Sampling shall be conducted on four consecutive days one week per month. See the Chloride Variance - Implement Source Reduction Measures section and the Chloride Source Reduction Measures (Target Value) Schedule. |
| Phosphorus, Total | Monthly Avg | 2.8 mg/L | Weekly | 24-Hr Flow Prop Comp | , |
| Phosphorus, Total | Monthly Avg | 0.34 lbs/day | Weekly | Calculated | Monitoring only upon permit effective date. Final TMDL-Based Mass Limits for Total Phosphorus go into effect per the Schedule. See also the Phosphorus TMDL section. |

| Monitoring Requirements and Effluent Limitations | | | | | | | |
|--|-------------------------|-----------|----------------------|-------------------------|--|--|--|
| Parameter | Limit Type | Limit and | Sample | Sample | Notes | | |
| | | Units | Frequency | Type | | | |
| Phosphorus, Total | | lbs/month | Monthly | Calculated | Calculate the Total Monthly Discharge of phosphorus and report on the last day of the month on the eDMR. See TMDL Calculations section. | | |
| Phosphorus, Total | | lbs/yr | Monthly | Calculated | Calculate the 12-month rolling sum of total monthly mass of phosphorus discharged and report on the last day of the month on the DMR. See TMDL Calculations section. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Daily Max - Variable | mg/L | Weekly | 24-Hr Flow Prop Comp | Applies year-round. See the Daily Maximum Ammonia Nitrogen (NH ₃ -N) Limits section. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Weekly Avg | 15 mg/L | Weekly | 24-Hr Flow Prop Comp | Limit applies January- March. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Weekly Avg | 6.3 mg/L | Weekly | 24-Hr Flow Prop Comp | Limit applies April-May. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Weekly Avg | 4.7 mg/L | Weekly | 24-Hr Flow Prop Comp | Limit applies June- September. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Weekly Avg | 8.9 mg/L | Weekly | 24-Hr Flow Prop Comp | Limit applies October- December. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Monthly Avg | 5.9 mg/L | Weekly | 24-Hr Flow Prop Comp | Limit applies January- March. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Monthly Avg | 2.5 mg/L | Weekly | 24-Hr Flow Prop Comp | Limit applies April-May. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Monthly Avg | 1.9 mg/L | Weekly | 24-Hr Flow Prop Comp | Limit applies June- September. | | |
| Nitrogen, Ammonia (NH ₃ -N) Total | Monthly Avg | 3.5 mg/L | Weekly | 24-Hr Flow Prop Comp | Limit applies October- December. | | |
| Temperature Maximum | | deg F | Monthly | Grab | Monitoring only January- December 2028. | | |
| Nitrogen, Total Kjeldahl | | mg/L | See Listed Qtr(s) | 24-Hr Flow Prop Comp | Annual in rotating quarters. See Nitrogen Series Monitoring section. | | |
| Nitrogen, Nitrite + Nitrate Total | | mg/L | See Listed Qtr(s) | 24-Hr Flow Prop Comp | Annual in rotating quarters. See Nitrogen Series Monitoring section. | | |

| | Monitoring Requirements and Effluent Limitations | | | | | | | |
|-----------------|--|--------------------|----------------------|-------------------------|---|--|--|--|
| Parameter | Limit Type | Limit and Units | Sample Frequency | Sample Type | Notes | | | |
| Nitrogen, Total | | mg/L | See Listed Qtr(s) | Calculated | Annual in rotating quarters. See Nitrogen Series Monitoring section. Total Nitrogen shall be calculated as the sum of reported values for Total Kjeldahl Nitrogen and Total Nitrite + Nitrate Nitrogen. | | | |
| Chronic WET | Monthly Avg | 2.9 TUc | See Listed Qtr(s) | 24-Hr Flow Prop Comp | See the Whole Effluent Toxicity (WET) Testing section. | | | |

2.2.1.1 Annual Average Design Flow

The annual average design flow of the permittee's wastewater treatment facility is 0.04 MGD.

2.2.1.2 E. coli Percent Limit

No more than 10 percent of *E. coli* bacteria samples collected in any calendar month may exceed 410 #/100 ml. Bacteria samples may be collected more frequently than required. All samples shall be reported on the monthly discharge monitoring reports (DMRs). The following calculation should be used to calculate percent exceedances.

$$\frac{\# of \ Samples \ greater \ than \ 410 \ \#/100}{Total \ \# of \ samples} \times 100 \ = \ \% \ Exceedance$$

2.2.1.3 Chloride Variance – Implement Source Reduction Measures

This permit contains a variance to the water quality-based effluent limit (WQBEL) for chloride granted in accordance with s. NR 106.83(2), Wis. Adm. Code. As conditions of this variance the permittee shall (a) maintain effluent quality at or below the interim effluent limitation specified in the table above, (b) implement the chloride source reduction measures specified below, (c) follow the Source Reduction Plan dated 2023-2028, and (d) perform the actions listed in the schedule (See the Schedules section herein):

- 1. Inspect Manholes: Inspect 1/5th of manholes every year. Develop a rehabilitation plan for manholes that do not pass inspection.
- 2. Televise Sewers: Sewers are to be televised once every five years. Develop a rehabilitation plan for sewers that do not pass inspection.
- 3. Rebate Program: Evaluate the feasibility of implementing a rebate program for residents to install more efficient water softeners by reviewing rebate programs from other communities and evaluating costs for the Village of Potter.
- 4. Education: Educate softener owners of the impact of chloride on water quality by providing information about increasing softener efficiency and reducing the use of softened water. Send this information (e.g., brochures) to customers and post information on the Village's website.
- 5. Survey: Conduct a survey to determine water softeners in use in the Village. Provide the survey form with the utility bill. Follow-up with those who do not respond.
- 6. Ordinance: Adopt and implement an ordinance that requires softeners to be inspected every five years. Notify residents and vendors of the ordinance and track compliance with the ordinance (if implemented).

7. Evaluate Alternatives: Provide an analysis of the feasibility of alternatives to meet the chloride water quality criteria by evaluating the installation of a centralized water system with ion exchange softening and hauling of regeneration wastewater off-site; the purchase of water from a neighboring community; relocating the effluent discharge to a higher flow stream; regionalization with a neighboring WWTF; installation of a chloride treatment system at the Village of Potter WWTF.

2.2.1.4 Northeast Lakeshore Basin (NEL) Total Maximum Daily Load (TMDL) Calculations

Approved TMDL: The Northeast Lakeshore Basin (NEL) TMDL Waste Load Allocation (WLA) for total phosphorus and total suspended solids was approved by the U.S. Environmental Protection Agency in October 2023. TMDL total lbs/month and lbs/yr effluent results shall be calculated as follows:

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

12-Month Rolling Sum of Total Monthly Discharge (lbs/yr) = the sum of the most recent 12 consecutive months of Total Monthly Discharges

2.2.1.5 TMDL Limitations for Total Phosphorus

The approved TMDL phosphorus WLA for this permittee is 66 lbs/yr, and results in a calculated phosphorus mass limit of 0.34 lbs/day which goes into effect pursuant to the TMDL-Based Mass Limits for Total Phosphorus Schedule. The 12-month rolling sum of total monthly phosphorus (lbs/yr) shall be reported each month for direct comparison to the facility's WLA.

The phosphorus limit of 2.8 mg/L is an interim limit set in accordance with s. NR. 217.17, Wis. Adm. Code. The interim limit will remain in effect unless a more stringent limit is required at a future permit issuance by ss. NR 217.13 and NR 217.16(2), Wis. Adm. Code, or the limit is relaxed following procedures outlined in ch. NR 207, Wis. Adm. Code. Sampling and reporting of phosphorus concentrations and masses discharged shall begin upon the permit effective date.

2.2.1.6 TMDL Limitations for Total Suspended Solids

The approved TMDL total suspended solids (TSS) WLA for this permittee is 1,617 lbs/yr, and results in calculated TSS mass limits of 14 lbs/day as a weekly average and 8.4 lbs/day as a monthly average. The 12-month rolling sum of total monthly TSS (lbs/yr) shall be reported each month for direct comparison to the facility's WLA.

2.2.1.7 Nitrogen Series Monitoring

Monitoring for Total Kjeldahl Nitrogen (TKN), Nitrite + Nitrate Nitrogen, and Total Nitrogen shall be conducted <u>once each year</u> in rotating quarters in order to collect seasonal information about the discharge. Tests are required during the following quarters.

 October – December 2025; April – June 2026; July – September 2027; January – March 2028; and October – December 2029

Nitrogen Series monitoring shall continue after the permit expiration date (until the permit is reissued) in accordance with the monitoring requirements specified in the last full calendar year of this permit. For example, the next test would be required in **October – December 2030**.

Testing: 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.

2.2.1.8 Whole Effluent Toxicity (WET) Testing

Primary Control Water: Grab sample collected from the North Branch of the Manitowoc River upstream of the confluence with the unnamed tributary.

Instream Waste Concentration (IWC): 34%

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

• Chronic: 100, 75, 50, 25, 12.5% and any additional selected by the permittee.

WET Testing Frequency:

Chronic tests are required during the following quarters:

• October – December 2025; April – June 2026; July – September 2027; January – March 2028; and October – December 2029

Chronic 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 **October – December 2030**.

Concurrent Monitoring: Effluent monitoring for chloride shall be conducted concurrently with WET testing.

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: A chronic toxicity test shall be considered positive if the Toxic Unit - Chronic (TU_c) is greater than **2.9** for either species. The TU_c shall be calculated as follows: $TU_c = 100 \div IC_{25}$.

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).

2.2.1.9 Daily Maximum Ammonia Nitrogen (NH₃-N) Limits

The daily maximum ammonia nitrogen effluent limit is a variable limit, dependent upon the effluent pH. Presented below is a table of daily maximum ammonia nitrogen effluent limits corresponding to various effluent pH values. Measurement of effluent pH is required on the same days as the collection of samples for ammonia analysis. For each day that the effluent is monitored for ammonia, report the measured ammonia concentration in the Ammonia column of the electronic Discharge Monitoring Report (eDMR) and the applicable variable limit (from the table below) in the Ammonia Variable Limit column of the eDMR.

Daily Maximum Ammonia Nitrogen Limits

| Effluent pH s.u. | Limit mg/L | Effluent pH s.u. | Limit mg/L | Effluent pH s.u. | Limit mg/L |
|----------------------|---------------|---------------------|---------------|---------------------|---------------|
| $6.0 \le pH \le 6.1$ | 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 | $8.4 < pH \le 8.5$ | 5.0 |
| $6.5 < pH \le 6.6$ | 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 |

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, Waste Type/Sample Contents and Treatment Description (as applicable) | | |
| 002 | LIQUID SLUDGE - Class B liquid sludge from the treatment of waste activated sludge that is aerobically digested. At Sampling Point 002, the permittee shall collect representative grab and/or composite samples of the liquid sludge from the aerobic digestor after complete mixing and be monitored annually for List 1 parameters and PFAS prior to being hauled to another permitted facility. If the permittee intends to land apply the liquid sludge to department approved sites in any given year, the permittee shall also monitor the liquid sludge annually for Lists 1, 2, 3, 4 and PFAS prior to being land applied on department approved sites via Outfall 002. | | |

3.2 Monitoring Requirements and Limitations

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

3.2.1 Sampling Point (Outfall) 002 - LIQUID SLUDGE

| Monitoring Requirements and Limitations | | | | | |
|---|------------------------------------|-------------|-------------|-----------|---------------------------|
| Parameter | Limit Type Limit and Sample Sample | | | Notes | |
| | | Units | Frequency | Type | |
| Solids, Total | | Percent | Annual | Composite | List 1 Parameters. Limits |
| Arsenic Dry Wt | High Quality | 41 mg/kg | Annual | Composite | applicable only when |
| Arsenic Dry Wt | Ceiling | 75 mg/kg | Annual | Composite | sludge is land applied. |
| Cadmium Dry Wt | High Quality | 39 mg/kg | Annual | Composite | |
| Cadmium Dry Wt | Ceiling | 85 mg/kg | Annual | Composite | |
| Copper Dry Wt | High Quality | 1,500 mg/kg | Annual | Composite | |
| Copper Dry Wt | Ceiling | 4,300 mg/kg | Annual | Composite | |
| Lead Dry Wt | High Quality | 300 mg/kg | Annual | Composite | |
| Lead Dry Wt | Ceiling | 840 mg/kg | Annual | Composite | |
| Mercury Dry Wt | High Quality | 17 mg/kg | Annual | Composite | |
| Mercury Dry Wt | Ceiling | 57 mg/kg | Annual | Composite | |
| Molybdenum Dry Wt | Ceiling | 75 mg/kg | Annual | Composite | |
| Nickel Dry Wt | High Quality | 420 mg/kg | Annual | Composite | |
| Nickel Dry Wt | Ceiling | 420 mg/kg | Annual | Composite | |
| Selenium Dry Wt | High Quality | 100 mg/kg | Annual | Composite | |
| Selenium Dry Wt | Ceiling | 100 mg/kg | Annual | Composite | |
| Zinc Dry Wt | High Quality | 2,800 mg/kg | Annual | Composite | |
| Zinc Dry Wt | Ceiling | 7,500 mg/kg | Annual | Composite | |
| Nitrogen, Total | | Percent | Per | Composite | List 2 Parameters. |
| Kjeldahl | | | Application | | Monitoring required only |

| Monitoring Requirements and Limitations | | | | | |
|---|------------|--------------------|---------------------|----------------|--|
| Parameter | Limit Type | Limit and Units | Sample Frequency | Sample Type | Notes |
| Nitrogen, Ammonium (NH ₄ -N) Total | | Percent | Per Application | Composite | when sludge is land applied. See List 2 Analysis |
| Phosphorus, Total | | Percent | Per Application | Composite | section. |
| Phosphorus, Water Extractable | | % of Tot P | Per Application | Composite | |
| Potassium, Total Recoverable | | Percent | Per Application | Composite | |
| PFOA + PFOS | | μg/kg | Annual | Calculated | Report the sum of PFOA and PFOS. See PFAS Permit Sections for more information. |
| PFAS Dry Wt | | | Annual | Grab | Perfluoroalkyl and Polyfluoroalkyl Substances based on updated DNR PFAS List. See PFAS Permit Sections for more information. |

| Other Sludge Requirements | | | |
|---|---|--|--|
| Sludge Requirements | Sample Frequency | | |
| List 3 Requirements – Pathogen Control: The requirements in List 3 shall be met prior to land application of sludge. | Required only when sludge is land applied | | |
| List 4 Requirements – Vector Attraction Reduction: The vector attraction reduction shall be satisfied prior to, or at the time of land application as specified in List 4. | Required only when sludge is land applied | | |

3.2.1.1 List 2 Analysis

If the monitoring frequency for List 2 parameters is more frequent than "Annual" then the sludge may be analyzed for the List 2 parameters just prior to each land application season rather than at the more frequent interval specified.

3.2.1.2 Changes in Feed Sludge Characteristics

If a change in feed sludge characteristics, treatment process, or operational procedures occurs which may result in a significant shift in sludge characteristics, the permittee shall reanalyze the sludge for List 1, 2, 3 and 4 parameters each time such change occurs.

3.2.1.3 Sludge Which Exceeds the High Quality Limit

Cumulative pollutant loading records shall be kept for all bulk land application of sludge which does not meet the high quality limit for any parameter. This requirement applies for the entire calendar year in which any exceedance of Table 3 of s. NR 204.07(5)(c), is experienced. Such loading records shall be kept for all List 1 parameters for each site land applied in that calendar year. The formula to be used for calculating cumulative loading is as follows:

[(Pollutant concentration (mg/kg) x dry tons applied/ac) \div 500] + previous loading (lbs/acre) = cumulative lbs pollutant per acre

When a site reaches 90% of the allowable cumulative loading for any metal established in Table 2 of s. NR 204.07(5)(b), the Department shall be so notified through letter or in the comment section of the annual land application report (3400-55).

3.2.1.4 Lists 1, 2, 3, and 4

| List 1 TOTAL SOLIDS AND METALS |
|---|
| See the Monitoring Requirements and Limitations table above for monitoring frequency and limitations for the List 1 parameters |
| Solids, Total (percent) |
| Arsenic, mg/kg (dry weight) |
| Cadmium, mg/kg (dry weight) |
| Copper, mg/kg (dry weight) |
| Lead, mg/kg (dry weight) |
| Mercury, mg/kg (dry weight) |
| Molybdenum, mg/kg (dry weight) |
| Nickel, mg/kg (dry weight) |
| Selenium, mg/kg (dry weight) |
| Zinc, mg/kg (dry weight) |

| List 2 NUTRIENTS |
|--|
| See the Monitoring Requirements and Limitations table above for monitoring frequency for the List 2 parameters |
| Solids, Total (percent) |
| Nitrogen Total Kjeldahl (percent) |
| Nitrogen Ammonium (NH4-N) Total (percent) |
| Phosphorus Total as P (percent) |
| Phosphorus, Water Extractable (as percent of Total P) |
| Potassium Total Recoverable (percent) |

List 3 PATHOGEN CONTROL FOR CLASS B SLUDGE

The permittee shall implement pathogen control as listed in List 3. The Department shall be notified of the pathogen control utilized and shall be notified when the permittee decides to utilize alternative pathogen control.

The following requirements shall be met prior to land application of sludge.

| | | 1 11 5 | |
|---|-------------------------|-----------|--|
| Parameter | Unit Limit | | |
| | MPN/gTS or | | |
| Fecal Coliform* | CFU/gTS | 2,000,000 | |
| OR, ONE OF THE FOLLOWING PROCESS OPTIONS | | | |
| Aerobic Digestion | Air Drying | | |
| Anaerobic Digestion Composting | | | |
| Alkaline Stabilization | PSRP Equivalent Process | | |
| * The Fecal Coliform limit shall be reported as the geometric mean of 7 discrete samples on a dry weight basis. | | | |

List 4 VECTOR ATTRACTION REDUCTION

The permittee shall implement any one of the vector attraction reduction options specified in List 4. The Department shall be notified of the option utilized and shall be notified when the permittee decides to utilize an alternative option.

One of the following shall be satisfied prior to, or at the time of land application as specified in List 4.

| Option | Limit | Where/When it Shall be Met |
|-------------------------------|---------------------------------|-------------------------------|
| Volatile Solids Reduction | ≥38% | Across the process |
| Specific Oxygen Uptake Rate | ≤1.5 mg O ₂ /hr/g TS | On aerobic stabilized sludge |
| Anaerobic bench-scale test | <17 % VS reduction | On anaerobic digested sludge |
| Aerobic bench-scale test | <15 % VS reduction | On aerobic digested sludge |
| Aerobic Process | >14 days, Temp >40°C and | On composted sludge |
| | Avg. Temp > 45°C | |
| pH adjustment | >12 S.U. (for 2 hours) | During the process |
| | and >11.5 | |
| | (for an additional 22 hours) | |
| Drying without primary solids | >75 % TS | When applied or bagged |
| Drying with primary solids | >90 % TS | When applied or bagged |
| Equivalent | Approved by the Department | Varies with process |
| Process | | _ |
| Injection | - | When applied |
| Incorporation | - | Within 6 hours of application |

3.2.1.5 Daily Land Application Log

Daily Land Application Log

Discharge Monitoring Requirements and Limitations

The permittee shall maintain a daily land application log for biosolids land applied each day when land application occurs. The following minimum records must be kept, in addition to all analytical results for the biosolids land applied. The log book records shall form the basis for the annual land application report requirements.

| 1 | | |
|---------------------------|--|---------------------|
| Parameters | Units | Sample Frequency |
| DNR Site Number(s) | Number | Daily as used |
| Outfall number applied | Number | Daily as used |
| Acres applied | Acres | Daily as used |
| Amount applied | As appropriate * /day | Daily as used |
| Application rate per acre | unit */acre | Daily as used |
| Nitrogen applied per acre | lb/acre | Daily as used |
| Method of Application | Injection, Incorporation, or surface applied | Daily as used |

gallons, cubic yards, dry US Tons or dry Metric Tons

3.2.1.6 Sludge Monitoring for PFAS

Sampling shall occur for perfluoroalkyl and polyfluoroalkyl compounds (PFAS) listed in the table below and as indicated in sampling point sections above. Monitoring shall occur at each sample point when sludge is generated regardless of the end use (i.e. land applied, hauled to another facility, landfilled).

| PFBA Perfluorobutanoic acid PFPeA Perfluoropentanoic acid PFPHA Perfluorohexanoic acid PFHA Perfluorohexanoic acid PFHA Perfluorohexanoic acid PFHA Perfluorononanoic acid PFOA Perfluorononanoic acid PFDA Perfluorononanoic acid PFDA Perfluorodecanoic acid PFDA Perfluorodecanoic acid PFDA Perfluorodecanoic acid PFToA Perfluorodecanoic acid PFToA Perfluoroteridecanoic acid PFTEDA Perfluorobutane sulfonic acid PFTEDA Perfluorobutane sulfonic acid PFPES Perfluoropentane sulfonic acid PFPAS Perfluorohexane sulfonic acid PFNS Perfluorohexane sulfonic acid PFNS Perfluoronane sulfonic acid PFNS Perfluorodecane sulfonic acid PFDS PERFLUOROCTANCESULFONAMIDES (FOSAs) PERFLUOROCTANCESULFONAMIDES (FOSAs) PERFLUOROCTANCESULFONAMIDOACETIC Acids N-EifPOSA N-Methyl perfluorooctane sulfonamide N-EifPOSA N-Methyl perfluorooctane sulfonamideoetic acid N-Meticosa N-Eithyl perfluorooctane sulfonamidoacetic acid N-Meticosa N-Methyl perfluorooctane sulfonamidoethanol PERFLUOROOCTANCESULFONAMIDOACETIC Acids (PFECAs) PERFLUOROOCTANCESULFONAMIDOACETIC Acids (PFECAs) | PERFLUOROALKYLCARBOXILIC Acids (PFCAs) | | | |
|---|--|--|--|--|
| PFHxA Perfluorohexanoic acid PFHpA Perfluoroneptanoic acid PFNA Perfluoroneptanoic acid PFNA Perfluoroneptanoic acid PFNA Perfluoroneptanoic acid PFDA Perfluoroneptanoic acid PFDA Perfluoronecanoic acid PFDA Perfluoronecanoic acid PFUnA Perfluoronecanoic acid PFDA Perfluoronecanoic acid PFDA Perfluoronecanoic acid PFTDA Perfluorotidecanoic acid PFTDA Perfluorotidecanoic acid PFTriA Perfluorotetradecanoic acid PFTeDA Perfluorobutane sulfonic acid PFTeDA Perfluorobutane sulfonic acid PFPBS Perfluorohexane sulfonic acid PFHxS Perfluorohexane sulfonic acid PFHxS Perfluorohexane sulfonic acid PFDS Perfluoronenane sulfonic acid PFNS Perfluoronenane sulfonic acid PFNS Perfluoroneane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorotelomersulfonic acid PFDS Perfluoroctane sulfonic acid PFDS Perfluoroctane sulfonic acid PFDS PERFLUOROCTANCESULFONAMIDES (FOSAs) PERFLUOROCTANCESULFONAMIDES (FOSAs) PFOSA Perfluorocctane sulfonamide N-BEPOSA N-Bethyl perfluorocctane sulfonamidoacetic acid N-MeFOSA N-Bethyl perfluorocctane sulfonamidoacetic acid N-MeFOSA N-Bethyl perfluorocctane sulfonamidoacetic acid NATIVE PERFLUOROCTANCESULFONAMIDOETILANOLS (FOSEs) N-MeFOSE N-Methyl perfluorocctane sulfonamidoethanol PERFLUOROCTANCESULFONAMIDOETILANOLS (FOSEs) N-MeFOSE N-Bethyl perfluorocctane sulfonamidoethanol PERFLUOROCTANCESULFONAMIDOETILANOLS (FOSEs) | PFBA | Perfluorobutanoic acid | | |
| PFHpA Perfluoroheptanoic acid PFOA Perfluorooctanoic acid PFNA Perfluorononanoic acid PFNA Perfluorononanoic acid PFDA Perfluorodecanoic acid PFUA Perfluorondecanoic acid PFUA Perfluorododecanoic acid PFDOA Perfluorothecanoic acid PFToA Perfluorothecanoic acid PFToA Perfluorothecanoic acid PFToA Perfluorothecanoic acid PFToA Perfluorobutane acid PFTeDA Perfluorobutane sulfonic acid PFTeDA Perfluorobutane sulfonic acid PFRS Perfluoroheptane sulfonic acid PFPS Perfluoroheptane sulfonic acid PFHxS Perfluoroheptane sulfonic acid PFNS Perfluoroheptane sulfonic acid PFNS Perfluorooctane sulfonic acid PFNS Perfluorodecane sulfonic acid PFDS Perfluorothemersulfonic acid PFDS Perfluorothemersulfonic acid PFDS Perfluoroctane sulfonic acid PFDS Perfluoroctane sulfonic acid PFDS Perfluoroctane sulfonic acid PFDS PERFLUOROOCTANCESULFONAMIDES (FOSAs) PERFLUOROOCTANCESULFONAMIDES (FOSAs) PFOSA Perfluorocctane sulfonamide PERFLUOROOCTANCESULFONAMIDOACETIC Acids N-EiFOSA N-Methyl perfluorooctane sulfonamidoacetic acid N-EiFOSA N-Ethyl perfluorooctane sulfonamidoacetic acid NATIVE PERFLUOROOCTANCESULFONAMIDOETHANOLS (FOSEs) N-MeFOSE N-Methyl perfluorooctane sulfonamidoethanol PERFLUOROOCTANCESULFONAMIDOETHANOLS (FOSEs) N-MeFOSE N-Methyl perfluorooctane sulfonamidoethanol | PFPeA | Perfluroropentanoic acid | | |
| PFOA Perfluorooctanoic acid PFNA Perfluorononanoic acid PFNA Perfluorondecanoic acid PFUnA Perfluoroundecanoic acid PFUnA Perfluoroodecanoic acid PFUnA Perfluoroodecanoic acid PFTDA Perfluorootridecanoic acid PFTTiA Perfluorotridecanoic acid PFTTTiA Perfluorotridecanoic acid PFTEDA Perfluorotridecanoic acid PFTEDA PERFLUOROALKYLSULFONIC Acids (PFSAS) PFBS Perfluorobutane sulfonic acid PFPES Perfluoropentane sulfonic acid PFHS Perfluorohexane sulfonic acid PFHS Perfluorohexane sulfonic acid PFNS Perfluorooctane sulfonic acid PFNS Perfluorononane sulfonic acid PFDS Perfluorodecane sulfonic acid 2:2 FTSA 4:2 fluorotelomersulfonic acid 6:2 FTSA 6:2 fluorotelomersulfonic acid 8:2 FTSA 8:2 fluorotelomersulfonic acid PERFLUOROOCTANCESULFONAMIDES (FOSAS) PFOSA Perfluorocatane sulfonamide N-MeFOSA N-Methyl perfluoroocatane sulfonamide PERFLUOROOCTANCESULFONAMIDOACETIC Acids N-EtFOSA N-Ethyl perfluoroocatane sulfonamidoacetic acid N-MeFOSA N-Methyl perfluorooctane sulfonamidoacetic acid N-MeFOSA N-Ethyl perfluorooctane sulfonamidoacetic acid N-MeFOSE N-Methyl perfluorooctane sulfonamidoacetic acid N-MeFOSE N-Methyl perfluorooctane sulfonamidoacetic acid N-EtFOSE N-Methyl perfluorooctane sulfonamidoacetic acid N-EtFOSE N-Methyl perfluorooctane sulfonamidoacetic acid | PFHxA | - | | |
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| PFDA Perfluorodecanoic acid PFUnA Perfluoroundecanoic acid PFDoA Perfluoroundecanoic acid PFTnA Perfluorotridecanoic acid PFTriA Perfluorotridecanoic acid PFTeDA Perfluorotetradecanoic acid PFTeDA Perfluorotetradecanoic acid PERFLUOROALKYLSULFONIC Acids (PFSAs) PFBS Perfluorobutane sulfonic acid PFPeS Perfluoropentane sulfonic acid PFHs Perfluoronepane sulfonic acid PFHs Perfluoroctane sulfonic acid PFNS Perfluoroctane sulfonic acid PFNS Perfluoronenane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorotelomersulfonic acid 8:2 FTSA 4:2 fluorotelomersulfonic acid 8:2 FTSA 5:2 fluorotelomersulfonic acid 8:2 FTSA 8:2 fluorotelomersulfonic acid PERFLUOROOCTANCESULFONAMIDES (FOSAs) PFOSA Perfluoroctane sulfonamide N-MeFOSA N-Methyl perfluoroccatane sulfonamide N-EiFOSA N-Ethyl perfluoroccatane sulfonamide PERFLUOROOCTANCESULFONAMIDOACETIC Acids N-MeFOSAA N-Methyl perfluoroccatane sulfonamidoacetic acid N-EiFOSAA N-Ethyl perfluoroccatane sulfonamidoacetic acid N-MeFOSE N-Methyl perfluoroccane sulfonamidoacetic acid N-MeFOSE N-Methyl perfluoroccane sulfonamidoacetic acid N-EiFOSE N-Methyl perfluoroccane sulfonamidoacetic acid N-EiFOSE N-Methyl perfluoroccane sulfonamidoacetic acid N-EiFOSE N-Ethyl perfluoroccane sulfonamidoacetic acid | PFOA | Perfluorooctanoic acid | | |
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| PERFLUOROALKYLSULFONIC Acids (PFSAs) PFBS Perfluorobutane sulfonic acid PFPeS Perfluoropentane sulfonic acid PFHxS Perfluorohexane sulfonic acid PFHys Perfluoroctane sulfonic acid PFOS Perfluorooctane sulfonic acid PFOS Perfluorononane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorododecane sulfonic acid PFDS Perfluorododecane sulfonic acid PFDS Perfluorododecane sulfonic acid 4:2 FTSA 4:2 fluorotelomersulfonic acid 6:2 FTSA 6:2 fluorotelomersulfonic acid 8:2 FTSA 8:2 fluorotelomersulfonic acid PERFLUOROOCTANCESULFONAMIDES (FOSAs) PFOSA Perfluoroctane sulfonamide N-MeFOSA N-Ethyl perfluoroocatane sulfonamide N-EtFOSA N-Ethyl perfluorooctane sulfonamide PERFLUOROOCTANCESULFONAMIDOACETIC Acids N-MeFOSAA N-Bethyl perfluoroocatane sulfonamidoacetic acid NATIVE PERFLUOROOCTANCESULFONAMIDOETHANOLS (FOSEs) N-MeFOSE N-Methyl perfluorooctane sulfonamidoacethanol N-EtFOSE N-Ethyl perfluorooctane sulfonamidoethanol PERFLUOROALKYLETHERCARBOXYLIC Acids (PFECAs) | PFTriA | Perfluorotridecanoic acid | | |
| PFBS Perfluorobutane sulfonic acid PFPeS Perfluoropentane sulfonic acid PFHxS Perfluorohexane sulfonic acid PFHxS Perfluorohexane sulfonic acid PFHys Perfluorocatane sulfonic acid PFOS Perfluorooctane sulfonic acid PFOS Perfluorononane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDoS Perfluorodecane sulfonic acid PFDoS Perfluorodecane sulfonic acid PFDoS Perfluorodecane sulfonic acid **TELOMER SULFONIC Acids** **12 FTSA 4:2 fluorotelomersulfonic acid 6:2 FTSA 6:2 fluorotelomersulfonic acid 8:2 FTSA 8:2 fluorotelomersulfonic acid **PERFLUOROOCTANCESULFONAMIDES (FOSAs) PFOSA Perfluoroctane sulfonamide N-MeFOSA N-Methyl perfluoroocatane sulfonamide N-EtFOSA N-Ethyl perfluoroocatane sulfonamide **PERFLUOROOCTANCESULFONAMIDOACETIC Acids** N-MeFOSAA N-Methyl perfluoroocatane sulfonamidoacetic acid N-EtFOSAA N-Ethyl perfluoroocatane sulfonamidoacetic acid N-EtFOSAA N-Ethyl perfluoroocatane sulfonamidoacetic acid NATIVE PERFLUOROOCTANCESULFONAMIDOETHANOLS (FOSEs) N-MeFOSE N-Methyl perfluorooctane sulfonamidoacethanol N-EtFOSE N-Ethyl perfluorooctane sulfonamidoethanol PERFLUOROALKYLETHERCARBOXYLIC Acids (PFECAs) | PFTeDA | Perfluorotetradecanoic acid | | |
| PFPES Perfluoropentane sulfonic acid PFHxS Perfluorohexane sulfonic acid PFHpS Perfluoroheptane sulfonic acid PFOS Perfluorooctane sulfonic acid PFOS Perfluorononane sulfonic acid PFNS Perfluorononane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDOS Perfluorodecane sulfonic acid PFDOS Perfluorodecane sulfonic acid PFDOS Perfluorodecane sulfonic acid TELOMER SULFONIC Acids 4:2 FTSA 4:2 fluorotelomersulfonic acid 6:2 FTSA 6:2 fluorotelomersulfonic acid 8:2 FTSA 8:2 fluorotelomersulfonic acid PERFLUOROOCTANCESULFONAMIDES (FOSAS) PFOSA Perfluoroctane sulfonamide N-MeFOSA N-Methyl perfluorooctane sulfonamide N-EIFOSA N-Ethyl perfluorooctane sulfonamide PERFLUOROOCTANCESULFONAMIDOACETIC Acids N-MeFOSAA N-Methyl perfluorooctane sulfonamidoacetic acid N-EIFOSAA N-Ethyl perfluorooctane sulfonamidoacetic acid NATIVE PERFLUOROOCTANCESULFONAMIDOETHANOLS (FOSES) N-MeFOSE N-Methyl perfluorooctane sulfonamidoeoethanol N-EIFOSE N-Ethyl perfluorooctane sulfonamidoeoethanol N-EIFOSE N-Ethyl perfluorooctane sulfonamidoeoethanol PERFLUOROALKYLETHERCARBOXYLIC Acids (PFECAS) | | PERFLUOROALKYLSULFONIC Acids (PFSAs) | | |
| PFHxS Perfluorohexane sulfonic acid PFHpS Perfluoroheptane sulfonic acid PFOS Perfluorooctane sulfonic acid PFNS Perfluorononane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorododecane sulfonic acid PFDOS Perfluorododecane sulfonic acid **TELOMER SULFONIC Acids** 4:2 FTSA 4:2 fluorotelomersulfonic acid 6:2 FTSA 6:2 fluorotelomersulfonic acid 8:2 FTSA 8:2 fluorotelomersulfonic acid **PERFLUOROOCTANCESULFONAMIDES (FOSAs)* PFOSA Perfluoroctane sulfonamide N-MeFOSA N-Methyl perfluoroocatane sulfonamide N-EtFOSA N-Ethyl perfluorooctane sulfonamide **PERFLUOROOCTANCESULFONAMIDOACETIC Acids** N-MeFOSAA N-Methyl perfluoroocatane sulfonamidoacetic acid N-EtFOSAA N-Ethyl perfluorooctane sulfonamidoacetic acid N-EtFOSAA N-Ethyl perfluorooctane sulfonamidoacetic acid **NATIVE PERFLUOROOCTANCESULFONAMIDOETHANOLS (FOSEs)* N-MeFOSE N-Methyl perfluorooctane sulfonamidoethanol N-EtFOSE N-Ethyl perfluorooctane sulfonamidoethanol **PERFLUOROALKYLETHERCARBOXYLIC Acids (PFECAs)* | PFBS | Perfluorobutane sulfonic acid | | |
| PFHpS Perfluoroheptane sulfonic acid PFOS Perfluorooctane sulfonic acid PFNS Perfluoronane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorododecane sulfonic acid **TELOMER SULFONIC Acids** **4:2 FTSA | PFPeS | Perfluroropentane sulfonic acid | | |
| PFOS Perfluorooctane sulfonic acid PFNS Perfluorononane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDS Perfluorodecane sulfonic acid PFDOS Perfluorododecane sulfonic acid **TELOMER SULFONIC Acids** **4:2 FTSA | PFHxS | Perfluorohexane sulfonic acid | | |
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| PERFLUOROALKYLETHERCARBOXYLIC Acids (PFECAs) | N-MeFOSE | N-Methyl perfluorooctane sulfonamideoethanol | | |
| | N-EtFOSE | N-Ethyl perfluorooctane sulfonamidoethanol | | |
| HEDO DA Harrista I II II II | PERFLUOROALKYLETHERCARBOXYLIC Acids (PFECAs) | | | |
| Hexalluoropropylene oxide dimer acid | HFPO-DA | Hexafluoropropylene oxide dimer acid | | |
| DONA 4,8-dioxa-3H-perfluorononanoic acid | DONA | 4,8-dioxa-3H-perfluorononanoic acid | | |

| CHLORO-PERFLUOROALKYLSULFONATE | | | |
|--------------------------------|---|--|--|
| F-53B Major | 9-chloroehexadecafluoro-3-oxanone-1-sulfonic acid | | |
| F-53B Minor | 11-chloroelcosafluoro-3-oxaundecane-1-sulfonic acid | | |

Note: If WDNR Lab Certification removes a particular compound from the reporting list above and upon receiving written communication from the department, reporting for that compound is no longer required.

3.2.1.7 Sampling and Reporting Sludge Samples for PFAS

Representative sludge samples shall be collected at each sample point as listed. At minimum, liquid sludge storage/digesters should be thoroughly mixed prior to sampling. Cake sludge samples should consist of seven equal size discrete samples and be collected from different areas and depths then composited into one sample for laboratory analysis.

Note: If additional equipment is used for collecting sludge samples (i.e., shovels, compositing buckets, bottles, etc.), then a one-time equipment blank is recommended to be collected with the first sample. An equipment blank sample is collected by passing laboratory verified PFAS-free water over or through field sampling equipment before the collection of a representative sludge sample. The equipment blank result shall be reported on the annual Sludge Characteristics Form (3400-049) in the comment section when reporting PFAS concentrations in the sludge.

The permittee shall report each of the PFAS sludge monitoring results on the annual Sludge Characteristics and Monitoring Form (3400-049) as provided by the department. The permittee shall also report the summation of PFOS and PFOA on this same form. All results shall be reported in dry weight. The annual Sludge Characteristics and Monitoring Form (3400-049) are due January 31, of the year following the collection of the sludge samples.

The laboratory performing the analysis on any samples shall be certified for the applicable PFAS compounds in the solids matrix by the Wisconsin Laboratory Certification Program established under s. 299.11, Wis. Stats., and in accordance with s. NR 149.41, Wis. Adm. Code. If the EPA Office of Water publishes a 1600 series isotope dilution method for the analysis of PFAS in solids, the department recommends the use of the EPA method. The department may reject any sample results if results are produced by a laboratory that is not in compliance with certification requirements under ch. NR 149, Wis. Adm. Code.

3.2.1.8 PFAS Land Application Requirements

The department recommends the landspreading and/or land application of sludge be done in a manner consistent with the most recent version of the "Interim Strategy for Land Application of Biosolids and Industrial Sludges containing PFAS".

4 Schedules

4.1 Chloride Source Reduction Measures (Target Value)

As a condition of the variance to the water quality based effluent limitation(s) for chloride granted in accordance with s. NR 106.83(2), Wis. Adm. Code, the permittee shall perform the following actions.

| Required Action | Due Date |
|---|------------|
| Annual Chloride Progress Report: Submit an annual chloride progress report related to the source reduction activities for the previous year. The annual chloride progress report shall: | 01/31/2026 |
| Indicate which chloride source reduction measures or activities in the Source Reduction Plan have been implemented and state which, if any, source reduction measures from the Source Reduction Plan were not pursued and why. Include an assessment of whether each implemented source reduction measure appears to be effective or ineffective at reducing pollutant discharge concentrations and identify actions planned for the upcoming year; | |
| Include an analysis of trends in weekly, monthly and annual average chloride concentrations and total mass discharge of chloride based on chloride sampling and flow data; and | |
| Include an analysis of how effluent chloride varies with time and with significant loadings of chloride. Note that the interim limitation listed in the Surface Water section of this permit remains enforceable until new enforceable limits are established in the next permit issuance. | |
| The first annual chloride progress report is to be submitted by the Date Due. | |
| Annual Chloride Progress Report #2: Submit the chloride progress report, related to the source reduction activities for the previous year, as defined above. | 01/31/2027 |
| Annual Chloride Progress Report #3: Submit the chloride progress report, related to the source reduction activities for the previous year, as defined above. | 01/31/2028 |
| Annual Chloride Progress Report #4: Submit the chloride progress report, related to the source reduction activities for the previous year, as defined above. | 01/31/2029 |
| Final Chloride Report: Submit the final chloride report documenting the success in meeting the chloride target value of 405 mg/L, as well as the anticipated future reduction in chloride sources and chloride effluent concentrations. | 09/30/2029 |
| The report shall: | |
| Summarize chloride source reduction measures that have been implemented during the current permit term and state which, if any, source reduction measures from the Source Reduction Plan were not pursued and why; | |
| Include an assessment of which source reduction measures appear to have been effective or ineffective. Evaluate any needed changes to the pollutant reduction strategy accordingly; | |
| Include an analysis of trends in weekly, monthly and annual average chloride concentrations and total mass discharge of chloride based on chloride sampling and flow data during the current permit term; and | |
| Include an analysis of how influent and effluent chloride varies with time and with significant loadings of chloride as identified in the source reduction plan. | |
| If the permittee intends to reapply for a chloride variance, for the reissued permit, proposed target limits and a detailed source reduction measures plan, outlining the source reduction activities proposed for the upcoming permit term, shall also be included per ss. NR 106.90 (5) and NR 106.83 | |

| (4), Wis. Adm. Code. An updated source reduction measures plan shall: | |
|--|--|
| Include an explanation of why or how each source reduction measure will result in reduced discharge of the target pollutant; and | |
| Evaluate any available information on pollutant sources, timing, and concentration to update the mass balance assumptions and expected sources of the pollutant, and | |
| Identify any information needs that would help to better determine pollutant sources and make plans to collect that information. | |
| Note that the target value is the benchmark for evaluating the effectiveness of the chloride source reduction measures but is not an enforceable limitation under the terms of this permit. | |
| Annual Chloride Reports After Permit Expiration: In the event that this permit is not reissued by the date the permit expires the permittee shall continue to submit annual chloride reports for the previous year following the due date of Annual Chloride Progress Reports listed above. Annual Chloride Progress Reports shall include the information as defined above. | |

4.2 Install Continuous Flow Recording Device and Influent Composite Sampler

The permittee shall install a continuous flow recording device and influent composite sampler at Sampling Point 701 (Influent) in accordance with the following schedule.

| Required Action | |
|---|------------|
| Submit Facility Plan: The permittee shall submit a Facility Plan per s. NR 110.09, Wis. Adm. Code. | 04/30/2026 |
| Plans and Specifications: Submit plans and specifications per ch. NR 108, Wis. Adm. Code, for installing a continuous flow recording device and influent composite sampler at Sampling Point 701 (Influent). | 03/31/2027 |
| Complete Install: The permittee shall complete installation of the continuous flow recording device and influent composite sampler at Sampling Point 701 (Influent). | 03/31/2029 |

4.3 Disinfection and Effluent Limitations for E. coli

The permittee shall install disinfection treatment and comply with surface water limitations for E. coli as specified. No later than 14 days following each compliance date, the permittee shall notify the Department in writing of its compliance or noncompliance. If a submittal is required, a timely submittal fulfills the notification requirement.

| Required Action | Due Date |
|---|-----------------|
| Progress Report: The permittee shall submit a progress report on development and submittal of a facility plan for upgrades to meet disinfection requirements and E. coli limits. | 12/31/2025 |
| Submit Facility Plan: The permittee shall submit a Facility Plan per s. NR 110.09, Wis. Adm. Code for meeting disinfection requirements and complying with E. coli surface water limitations. The permittee may submit an abbreviated facility plan if the Department determines that the modifications are minor. | 04/30/2026 |
| Final Plans and Specifications: The permittee shall submit final construction plans to the Department for approval pursuant to ch. NR 108, Wis. Adm. Code, specifying treatment plant upgrades that must be constructed to meet disinfection requirements per s. NR 210.06(1), Wis. Adm Code, achieve compliance with final E. coli limitations, and a schedule for completing construction of the upgrades by the complete construction date specified below. | 03/31/2027 |

| Treatment Plant Upgrade to Meet Limitations: 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. | 09/30/2027 |
|--|------------|
| Construction Upgrade Progress Report: The permittee shall submit a progress report on construction upgrades. | 09/30/2028 |
| Complete Construction: The permittee shall complete construction of wastewater treatment system upgrades. | 03/31/2029 |
| Achieve Compliance: The permittee shall achieve compliance with final E. coli limitations. | 04/30/2029 |

4.4 TMDL-Based Effluent Mass Limits for Total Phosphorus

The permittee shall comply with the limits for Phosphorus as specified. No later than 14 days following each compliance date, the permittee shall notify the Department in writing of its compliance or noncompliance. If a submittal is required, a timely submittal fulfills the notification requirement.

| Required Action | Due Date |
|--|------------|
| Construction Upgrade Progress Report #2: The permittee shall submit a progress report on construction upgrades. | 03/31/2026 |
| Complete Construction: The permittee shall complete construction of wastewater treatment system upgrades. | 12/31/2026 |
| Achieve Compliance: The permittee shall achieve compliance with final phosphorus effluent limits. | 01/01/2027 |

4.5 Sludge Management Plan

A sludge management plan is required 60 days prior to sludge removal.

| Required Action | Due Date |
|---|-----------------|
| Sludge Management Plan Submittal: Submit a management plan to optimize the land application system performance and demonstrate compliance with ch. NR 204, Wis. Adm. Code. This management plan shall 1) specify information on pretreatment processes (if any); 2) identify land application sites; 3) describe site limitations; 4) address vegetative cover management and removal; 5) specify availability of storage; 6) describe the type of transporting and spreading vehicle(s); 7) specify monitoring procedures; 8) track site loading; 9) address contingency plans for adverse weather and odor/nuisance abatement; and 10) include any other pertinent information. Once approved, all landspreading activities shall be conducted in accordance with the plan. Any changes to the plan must be approved by the Department prior to implementing the changes. | 04/01/2026 |

5 Standard Requirements

Chapter NR 205, Wisconsin Administrative Code: The conditions in ss. NR 205.07(1) and NR 205.07(2), 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(2), 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 municipal 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 Compliance Maintenance Annual Reports

Compliance Maintenance Annual Reports (CMAR) shall be completed using information obtained over each calendar year regarding the wastewater conveyance and treatment system. The CMAR shall be submitted and certified by the permittee in accordance with ch. NR 208, Wis. Adm. Code, by June 30, each year on an electronic report form provided by the Department.

In the case of a publicly owned treatment works, a resolution shall be passed by the governing body and submitted as part of the CMAR, verifying its review of the report and providing responses as required. Private owners of wastewater treatment works are not required to pass a resolution; but they must provide an Owner Statement and responses as required, as part of the CMAR submittal.

The CMAR shall be certified electronically by a responsible executive or municipal 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 certification verifies that the electronic report is true, accurate and complete.

5.1.6 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. All pertinent sludge information, including permit application information and other documents specified in this permit or s. NR 204.06(9), Wis. Adm. Code shall be retained for a minimum of 5 years.

5.1.7 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.

5.1.8 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

Sanitary sewer overflows and sewage treatment facility overflows shall be reported according to the 'Sanitary Sewer Overflows and Sewage Treatment Facility Overflows' section of this permit.

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's regional office 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 Flow Meters

Flow meters shall be calibrated annually, as per s. NR 218.06, Wis. Adm. Code.

5.2.3 Raw Grit and Screenings

All raw grit and screenings shall be disposed of at a properly licensed solid waste facility or picked up by a licensed waste hauler. If the facility or hauler are located in Wisconsin, then they shall be licensed under chs. NR 500-555, Wis. Adm. Code.

5.2.4 Sludge Management

All sludge management activities shall be conducted in compliance with ch. NR 204 "Domestic Sewage Sludge Management", Wis. Adm. Code.

5.2.5 Prohibited Wastes

Under no circumstances may the introduction of wastes prohibited by s. NR 211.10, Wis. Adm. Code, be allowed into the waste treatment system. Prohibited wastes include those:

- which create a fire or explosion hazard in the treatment work;
- which will cause corrosive structural damage to the treatment work;
- solid or viscous substances in amounts which cause obstructions to the flow in sewers or interference with the proper operation of the treatment work;
- wastewaters at a flow rate or pollutant loading which are excessive over relatively short time periods so as to cause a loss of treatment efficiency; and
- changes in discharge volume or composition from contributing industries which overload the treatment works or cause a loss of treatment efficiency.

5.2.6 Bypass

This condition applies only to bypassing at a sewage treatment facility that is not a scheduled bypass, approved blending as a specific condition of this permit, a sewage treatment facility overflow or a controlled diversion as provided in the sections titled 'Scheduled Bypass', 'Blending' (if approved), 'SSO's and Sewage Treatment Facility Overflows' and 'Controlled Diversions' of this permit. Any other bypass at the sewage treatment facility 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.

5.2.7 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 bypassing specified in the above section titled 'Bypass' 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.

5.2.8 Controlled Diversions

Controlled diversions are allowed only when necessary for essential maintenance to assure efficient operation. Sewage treatment facilities that have multiple treatment units to treat variable or seasonal loading conditions may shut down redundant treatment units when necessary for efficient operation. The following requirements shall be met during controlled diversions:

- Effluent from the sewage 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 does not include blending as defined in s. NR 210.03(2e), Wis. Adm. Code, and as may only be approved under s. NR 210.12, Wis. Adm. Code. 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 sewage treatment facility records and such records shall be available to the department on request.

5.2.9 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.

5.2.10 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).

5.3 Sewage Collection Systems

5.3.1 Sanitary Sewage Overflows and Sewage Treatment Facility Overflows

5.3.1.1 Overflows Prohibited

Any overflow or discharge of wastewater from the sewage collection system or at the sewage treatment facility, other than from permitted outfalls, is prohibited. The permittee shall provide information on whether any of the following conditions existed when an overflow occurred:

• The sanitary sewer overflow or sewage treatment facility overflow was unavoidable to prevent loss of life, personal injury or severe property damage;

- There were no feasible alternatives to the sanitary sewer overflow or sewage treatment facility overflow such as the use of auxiliary treatment facilities or adequate back-up equipment, retention of untreated wastes, reduction of inflow and infiltration, or preventive maintenance activities;
- The sanitary sewer overflow or the sewage treatment facility overflow was caused by unusual or severe
 weather-related conditions such as large or successive precipitation events, snowmelt, saturated soil
 conditions, or severe weather occurring in the area served by the sewage collection system or sewage
 treatment facility; and
- The sanitary sewer overflow or the sewage treatment facility overflow was unintentional, temporary, and caused by an accident or other factors beyond the reasonable control of the permittee.

5.3.1.2 Permittee Response to Overflows

Whenever a sanitary sewer overflow or sewage treatment facility overflow occurs, the permittee shall take all feasible steps to control or limit the volume of untreated or partially treated wastewater discharged, and terminate the discharge as soon as practicable. Remedial actions, including those in s. NR 210.21 (3), Wis. Adm. Code, shall be implemented consistent with an emergency response plan developed under the CMOM program.

5.3.1.3 Permittee Reporting

Permittees shall report all sanitary sewer overflows and sewage treatment overflows as follows:

- The permittee shall notify the department by telephone, fax or email as soon as practicable, but no later than 24 hours from the time the permittee becomes aware of the overflow;
- The permittee shall, no later than five days from the time the permittee becomes aware of the overflow, provide to the department the information identified in this paragraph using department form number 3400-184. If an overflow lasts for more than five days, an initial report shall be submitted within 5 days as required in this paragraph and an updated report submitted following cessation of the overflow. At a minimum, the following information shall be included in the report:
 - The date and location of the overflow;
 - The surface water to which the discharge occurred, if any;
 - o The duration of the overflow and an estimate of the volume of the overflow;
 - O A description of the sewer system or treatment facility component from which the discharge occurred such as manhole, lift station, constructed overflow pipe, or crack or other opening in a pipe;
 - The estimated date and time when the overflow began and stopped or will be stopped;
 - o The cause or suspected cause of the overflow including, if appropriate, precipitation, runoff conditions, areas of flooding, soil moisture and other relevant information;
 - Steps taken or planned to reduce, eliminate and prevent reoccurrence of the overflow and a schedule of major milestones for those steps;
 - A description of the actual or potential for human exposure and contact with the wastewater from the overflow;
 - Steps taken or planned to mitigate the impacts of the overflow and a schedule of major milestones for those steps;
 - To the extent known at the time of reporting, the number and location of building backups caused by excessive flow or other hydraulic constraints in the sewage collection system that occurred concurrently with the sanitary sewer overflow and that were within the same area of the sewage collection system as the sanitary sewer overflow; and
 - o The reason the overflow occurred or explanation of other contributing circumstances that resulted in the overflow event. This includes any information available including whether the overflow was

unavoidable to prevent loss of life, personal injury, or severe property damage and whether there were feasible alternatives to the overflow.

NOTE: A copy of form 3400-184 for reporting sanitary sewer overflows and sewage treatment facility overflows may be obtained from the department or accessed on the department's web site at http://dnr.wi.gov/topic/wastewater/SSOreport.html. As indicated on the form, additional information may be submitted to supplement the information required by the form.

- The permittee shall identify each specific location and each day on which a sanitary sewer overflow or sewage treatment facility overflow occurs as a discrete sanitary sewer overflow or sewage treatment facility overflow occurrence. An occurrence may be more than one day if the circumstances causing the sanitary sewer overflow or sewage treatment facility overflow results in a discharge duration of greater than 24 hours. If there is a stop and restart of the overflow at the same location within 24 hours and the overflow is caused by the same circumstance, it may be reported as one occurrence. Sanitary sewer overflow occurrences at a specific location that are separated by more than 24 hours shall be reported as separate occurrences; and
- A permittee that is required to submit wastewater discharge monitoring reports under s. NR 205.07 (1) (r), Wis. Adm. Code, shall also report all sanitary sewer overflows and sewage treatment facility overflows on that report.

5.3.1.4 Public Notification

The permittee shall notify the public of any sanitary sewer and sewage treatment facility overflows consistent with its emergency response plan required under the CMOM (Capacity, Management, Operation and Maintenance) section of this permit and s. NR 210.23 (4) (f), Wis. Adm. Code. Such public notification shall occur promptly following any overflow event using the most effective and efficient communications available in the community. At minimum, a daily newspaper of general circulation in the county(s) and municipality whose waters may be affected by the overflow shall be notified by written or electronic communication.

5.3.2 Capacity, Management, Operation and Maintenance (CMOM) Program

- The permittee shall have written documentation of the Capacity, Management, Operation and Maintenance (CMOM) program components in accordance with s. NR 210.23(4), Wis. Adm. Code. Such documentation shall be available for Department review upon request. The Department may request that the permittee provide this documentation or prepare a summary of the permittee's CMOM program at the time of application for reissuance of the WPDES permit.
- The permittee shall implement a CMOM program in accordance with s. NR 210.23, Wis. Adm. Code.
- The permittee shall at least annually conduct a self-audit of activities conducted under the permittee's CMOM program to ensure CMOM components are being implemented as necessary to meet the general standards of s. NR 210.23(3), Wis. Adm. Code.

5.3.3 Sewer Cleaning Debris and Materials

All debris and material removed from cleaning sanitary sewers shall be managed to prevent nuisances, run-off, ground infiltration or prohibited discharges.

- Debris and solid waste shall be dewatered, dried and then disposed of at a licensed solid waste facility.
- Liquid waste from the cleaning and dewatering operations shall be collected and disposed of at a permitted wastewater treatment facility.
- Combination waste including liquid waste along with debris and solid waste may be disposed of at a licensed solid waste facility or wastewater treatment facility willing to accept the waste.

5.4 Surface Water Requirements

5.4.1 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.

5.4.2 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.

5.4.3 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.

5.4.4 Visible Foam or Floating Solids

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

5.4.5 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:

- a) 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.
- b) 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.
- c) 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.
- d) 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.

5.4.6 Percent Removal

During any 30 consecutive days, the average effluent concentrations of BOD₅ and of total suspended solids shall not exceed 15% of the average influent concentrations, respectively. This requirement does not apply to removal of total suspended solids if the permittee operates a lagoon system and has received a variance for suspended solids granted under NR 210.07(2), Wis. Adm. Code.

5.4.7 E. coli

The monthly limit for *E. coli* shall be expressed as a geometric mean. In calculating the geometric mean, a value of 1 is used for any result of 0.

5.4.8 Seasonal Disinfection

Disinfection shall be provided from May 1 through September 30 of each year. Monitoring requirements and the limitations for *E. coli* apply only during the period in which disinfection is required. Whenever chlorine is used for disinfection or other uses, the limitations and monitoring requirements for residual chlorine shall apply. A dechlorination process shall be in operation whenever chlorine is used.

5.4.9 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.

5.4.10 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.

5.4.11 Reopener Clause

Pursuant to s. 283.15(11), Wis. Stat. and 40 CFR 131.20, the Department may modify or revoke and reissue this permit if, through the triennial standard review process, the Department determines that the terms and conditions of this permit need to be updated to reflect the highest attainable condition of the receiving water.

5.5 Land Application Requirements

5.5.1 Sludge Management Program Standards And Requirements Based Upon Federally Promulgated Regulations

In the event that new federal sewage sludge standards or regulations are promulgated, the permittee shall comply with the new sewage sludge requirements by the dates established in the regulations, if required by federal law, even if the permit has not yet been modified to incorporate the new federal regulations.

5.5.2 General Sludge Management Information

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

5.5.3 Sludge Samples

All sludge samples shall be collected at a point and in a manner which will yield sample results which are representative of the sludge being tested, and collected at the time which is appropriate for the specific test.

5.5.4 Land Application Characteristic Report

Each report shall consist of a Characteristic Form 3400-49 and Lab Report. The Characteristic Report Form 3400-49 shall be submitted electronically by January 31 following each year of analysis.

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 or municipal 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 is true, accurate and complete. The Lab Report must be sent directly to the facility's DNR sludge representative or basin engineer unless approval for not submitting the lab reports has been given.

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 results shall be reported on a dry weight basis.

5.5.5 Calculation of Water Extractable Phosphorus

When sludge analysis for Water Extractable Phosphorus is required by this permit, the permittee shall use the following formula to calculate and report Water Extractable Phosphorus:

Water Extractable Phosphorus (% of Total P) =

[Water Extractable Phosphorus (mg/kg, dry wt) ÷ Total Phosphorus (mg/kg, dry wt)] x 100

5.5.6 Monitoring and Calculating PCB Concentrations in Sludge

When sludge analysis for "PCB, Total Dry Wt" is required by this permit, the PCB concentration in the sludge shall be determined using either congener-specific analysis or Aroclor analysis. The permittee may decide which of these analyses is performed. Analyses shall be performed in accordance with the following provisions and Table EM in s. NR 219.04, Wis. Adm. Code:

- If congener-specific analysis is employed: All PCB congeners shall be delineated. Non-detects shall be treated as zero. The values that are between the limit of detection (LOD) and the limit of quantitation shall be used when calculating the total value of all congeners. All results shall be added together and the total PCB concentration by dry weight reported.
- If Aroclor analysis is employed, reporting protocols, consistent with s. NR 106.07(6)(e), should be as follows: If all Aroclors are less than the LOD, then the Total PCB Dry Wt result should be reported as less than the highest LOD. If a single Aroclor is detected, then that is what should be reported for the Total PCB result. If multiple Aroclors are detected, they should be summed and reported as Total PCBs. If the LOD cannot be achieved after using the appropriate clean up techniques, a reporting limit that is achievable for the Aroclors or each congener for the sample shall be determined. This reporting limit shall be reported and qualified indicating the presence of an interference.

5.5.7 Annual Land Application Report

Land Application Report Form 3400-55 shall be submitted electronically by January 31, each year whether or not non-exceptional quality sludge is land applied. Non-exceptional quality sludge is defined in s. NR 204.07(4), Wis. Adm. Code. 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 or municipal 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.

5.5.8 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 sludge is hauled, landfilled, incinerated, or exceptional quality sludge is distributed or land applied. Following submittal of the electronic Report Form 3400-52, this form shall be certified electronically via the 'eReport Certify' page by a responsible executive or municipal 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.

5.5.9 Approval to Land Apply

Bulk non-exceptional quality sludge as defined in s. NR 204.07(4), Wis. Adm. Code, may not be applied to land without a written approval letter or Form 3400-122 from the Department unless the Permittee has obtained permission from the Department to self-approve sites in accordance with s. NR 204.06(6), Wis. Adm. Code. Analysis of sludge characteristics is required prior to land application. Application on frozen or snow-covered ground is restricted to the extent specified in s. NR 204.07(3)(1), Wis. Adm. Code.

5.5.10 Soil Analysis Requirements

Each site requested for approval for land application must have the soil tested prior to use. Each approved site used for land application must subsequently be soil tested such that there is at least one valid soil test in the four years prior to land application. All soil sampling and submittal of information to the testing laboratory shall be done in accordance with UW Extension Bulletin A-2100. The testing shall be done by the UW Soils Lab in Madison or Marshfield, WI or at a lab approved by UW. The test results including the crop recommendations shall be submitted to the DNR contact listed for this permit, as they are available. Application rates shall be determined based on the crop nitrogen recommendations and with consideration for other sources of nitrogen applied to the site.

5.5.11 Land Application Site Evaluation

For non-exceptional quality sludge, as defined in s. NR 204.07(4), Wis. Adm. Code, a Land Application Site Request Form 3400-053 shall be submitted to the Department for the proposed land application site. The Department will evaluate the proposed site for acceptability and will either approve or deny use of the proposed site. The permittee may obtain permission to approve their own sites in accordance with s. NR 204.06(6), Wis. Adm. Code.

5.5.12 Class B Sludge: Fecal Coliform Limitation

Compliance with the fecal coliform limitation for Class B sludge shall be demonstrated by calculating the geometric mean of at least 7 separate samples. (Note that a Total Solids analysis must be done on each sample). The geometric mean shall be less than 2,000,000 MPN or CFU/g TS. Calculation of the geometric mean can be done using one of the following 2 methods.

Method 1:

Geometric Mean = $(X_1 \times X_2 \times X_3 ... \times X_n)^{1/n}$

Where X = Coliform Density value of the sludge sample, and where n = number of samples (at least 7)

Method 2:

Geometric Mean = antilog[$(X_1 + X_2 + X_3 ... + X_n) \div n$]

Where $X = log_{10}$ of Coliform Density value of the sludge sample, and where n = number of samples (at least 7) Example for Method 2

| Sample Number | Coliform Density of Sludge Sample | \log_{10} |
|---------------|-----------------------------------|-------------|
| 1 | 6.0×10^5 | 5.78 |
| 2 | 4.2×10^6 | 6.62 |
| 3 | 1.6×10^6 | 6.20 |
| 4 | 9.0×10^5 | 5.95 |
| 5 | 4.0×10^5 | 5.60 |
| 6 | 1.0×10^6 | 6.00 |
| 7 | 5.1×10^5 | 5.71 |

7 | 5.1×10^3 | 5.71 | The geometric mean for the seven samples is determined by averaging the \log_{10} values of the coliform density and taking the antilog of that value.

$$(5.78 + 6.62 + 6.20 + 5.95 + 5.60 + 6.00 + 5.71) \div 7 = 5.98$$

The antilog of $5.98 = 9.5 \times 10^5$

5.5.13 Class B Sludge - Vector Control: Injection

No significant amount of the sewage sludge shall be present on the land surface within one hour after the sludge is injected.

5.5.14 Class B Sludge - Vector Control: Incorporation

Class B sludge shall be incorporated within 6 hours of surface application, or as approved by the Department.

5.5.15 Sludge Hauling

The permittee is required to submit Form 3400-52 to the Department. If sludge is hauled to another facility, information shall include the quantity of sludge hauled, the name, address, phone number, contact person, and permit number of the receiving facility. Form 3400-52 shall be submitted annually by January 31 each year whether or not sludge is hauled.

6 Summary of Reports Due

FOR INFORMATIONAL PURPOSES ONLY

| Description | Date | Page |
|---|---------------------------------|------|
| Chloride Source Reduction Measures (Target Value) -Annual Chloride Progress Report | January 31, 2026 | 16 |
| Chloride Source Reduction Measures (Target Value) -Annual Chloride Progress Report #2 | January 31, 2027 | 16 |
| Chloride Source Reduction Measures (Target Value) -Annual Chloride Progress Report #3 | January 31, 2028 | 16 |
| Chloride Source Reduction Measures (Target Value) -Annual Chloride Progress Report #4 | January 31, 2029 | 16 |
| Chloride Source Reduction Measures (Target Value) -Final Chloride Report | September 30, 2029 | 16 |
| Chloride Source Reduction Measures (Target Value) -Annual Chloride Reports After Permit Expiration | See Permit | 17 |
| Install Continuous Flow Recording Device and Influent Composite Sampler -Submit Facility Plan | April 30, 2026 | 17 |
| Install Continuous Flow Recording Device and Influent Composite Sampler -Plans and Specifications | March 31, 2027 | 17 |
| Install Continuous Flow Recording Device and Influent Composite Sampler -Complete Install | March 31, 2029 | 17 |
| Disinfection and Effluent Limitations for E. coli -Progress Report | December 31, 2025 | 17 |
| Disinfection and Effluent Limitations for E. coli -Submit Facility Plan | April 30, 2026 | 17 |
| Disinfection and Effluent Limitations for E. coli -Final Plans and Specifications | March 31, 2027 | 17 |
| Disinfection and Effluent Limitations for E. coli -Treatment Plant Upgrade to Meet Limitations | September 30, 2027 | 18 |
| Disinfection and Effluent Limitations for E. coli -Construction Upgrade Progress Report | September 30, 2028 | 18 |
| Disinfection and Effluent Limitations for E. coli -Complete Construction | March 31, 2029 | 18 |
| Disinfection and Effluent Limitations for E. coli -Achieve Compliance | April 30, 2029 | 18 |
| TMDL-Based Effluent Mass Limits for Total Phosphorus -Construction Upgrade Progress Report #2 | March 31, 2026 | 18 |
| TMDL-Based Effluent Mass Limits for Total Phosphorus -Complete Construction | December 31, 2026 | 18 |
| TMDL-Based Effluent Mass Limits for Total Phosphorus -Achieve Compliance | January 1, 2027 | 18 |
| Sludge Management Plan -Sludge Management Plan Submittal | April 1, 2026 | 18 |
| Compliance Maintenance Annual Reports (CMAR) | by June 30, each year | 20 |
| General Sludge Management Form 3400-48 | prior to any significant sludge | 28 |

WPDES Permit No. WI-0029025-10-0 Village of Potter

| | Village of Fotter | |
|---|---|----|
| | management changes | |
| Characteristic Form 3400-49 and Lab Report | by January 31 following each year of analysis | 28 |
| Land Application Report Form 3400-55 | by January 31, each year whether or not non-exceptional quality sludge is land applied | 29 |
| Other Methods of Disposal or Distribution Report Form 3400-52 | by January 31, each year whether or not sludge is hauled, landfilled, incinerated, or exceptional quality sludge is distributed or land applied | 29 |
| Wastewater Discharge Monitoring Report | no later than the date indicated on the form | 19 |

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 other submittals required by this permit shall be submitted to:

Northeast Region - Oshkosh, 625 E Cty Rd Y, Suite 700, Oshkosh, WI 54901