



WPDES PERMIT

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

The City of Stoughton

is permitted, under the authority of Chapter 283, Wisconsin Statutes, to discharge from a facility
located at

Paradise Pond

to

the Yahara River in the Lower Rock River Basin in Dane County

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

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

State of Wisconsin Department of Natural Resources
For the Secretary

By _____
Lloyd L. Eagan
South Central Regional Director

Date Permit Signed/Issued

PERMIT TERM: EFFECTIVE DATE - December 01, 2009

EXPIRATION DATE - November 30, 2014

TABLE OF CONTENTS

1 SURFACE WATER REQUIREMENTS	1
1.1 SAMPLING POINT(S)	1
1.2 MONITORING REQUIREMENTS AND EFFLUENT LIMITATIONS	1
1.2.1 <i>Sampling Point (Outfall) 001 - Paradise Pond Pump Station</i>	1
2 SCHEDULES OF COMPLIANCE	5
2.1 POLLUTANT TRADING REPORTS	5
3 STANDARD REQUIREMENTS	6
3.1 REPORTING AND MONITORING REQUIREMENTS	6
3.1.1 <i>Monitoring Results</i>	6
3.1.2 <i>Sampling and Testing Procedures</i>	6
3.1.3 <i>Recording of Results</i>	6
3.1.4 <i>Reporting of Monitoring Results</i>	7
3.1.5 <i>Records Retention</i>	7
3.1.6 <i>Other Information</i>	7
3.2 SYSTEM OPERATING REQUIREMENTS	7
3.2.1 <i>Noncompliance Notification</i>	7
3.2.2 <i>Unscheduled Bypassing</i>	8
3.2.3 <i>Scheduled Bypassing</i>	8
3.2.4 <i>Proper Operation and Maintenance</i>	9
3.2.5 <i>Spill Reporting</i>	9
3.2.6 <i>Planned Changes</i>	9
3.2.7 <i>Duty to Halt or Reduce Activity</i>	9
3.3 SURFACE WATER REQUIREMENTS	9
3.3.1 <i>Permittee-Determined Limit of Quantitation Incorporated into this Permit</i>	9
3.3.2 <i>Appropriate Formulas for Effluent Calculations</i>	10
3.3.3 <i>Visible Foam or Floating Solids</i>	10
4 SUMMARY OF REPORTS DUE	11

1 Surface Water Requirements

1.1 Sampling Point(s)

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

Sampling Point Designation	
Sampling Point Number	Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)
001	Discharge from Paradise Pond Pump Station to the Yahara River

1.2 Monitoring Requirements and Effluent Limitations

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

1.2.1 Sampling Point (Outfall) 001 - Paradise Pond Pump Station

Monitoring Requirements and Effluent Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Volume		MGD	See Permit Note	Calculated	Record the volume discharged for each day the pump is operated in Million Gallon units, as per section 1.2.1.2 .
Volume		gal/month	See Permit Note	Calculated	Record the monthly volume discharged in MG units in the space for day 31.
Volume		gal/yr	See Permit Note	Calculated	Record the yearly volume discharged in MG units in the space for day 31.
Suspended Solids, Total		mg/L	See Permit Note	Grab	Record the sample result for each sample collected. See section 1.2.1.3.
Suspended Solids, Total		lbs/month	See Permit Note	Calculated	Record the suspended solids load discharged for the month in the space for day 31.
Suspended Solids, Total		lbs/yr	See Permit Note	Calculated	Record the suspended solids load discharged for the year in the space for day 31.
Phosphorus, Total		mg/L	See Permit Note	Grab	Record the sample result for each sample collected. See section 1.2.1.3.
Phosphorus, Total		lbs/month	See Permit Note	Calculated	Record the phosphorus load discharged for the month in the space for day 31.

Monitoring Requirements and Effluent Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Phosphorus, Total		lbs/yr	See Permit Note	Calculated	Record the phosphorus load discharged for the year in the space for day 31.
Flow River		cfs	See Permit Note	Gauge Station	Record the daily mean river flow for each day the pump is operated. See section 1.2.1.3.
BOD ₅ , Total		mg/L	See Permit Note	Grab	Record the sample result for each sample collected. See section 1.2.1.3.
BOD ₅ , Variable Limit		mg/L	See Permit Note	See Table	Record the appropriate variable limit from section 1.2.1.5.
BOD ₅ , Total		lbs/day	See Permit Note	Calculated	Record the calculated lbs/day of BOD discharged for each day the pump was operated.
BOD ₅ , Variable Limit		lbs/day	See Permit Note	See Table	Record the appropriate variable limit from section 1.2.1.5.
Nitrogen, Ammonia (NH ₃ -N) Total		mg/L	See Permit Note	Grab	Record the sample result for each sample collected. See section 1.2.1.2.
pH Field		su	See Permit Note	Grab	Record the sample result for each sample collected. See section 1.2.1.2.

1.2.1.1 Maximum Discharge Flow Rate

The maximum discharge flow rate from Paradise Pond shall not exceed 4000 gal/minute.

1.2.1.2 Monitoring Discharge Volume and River Flow

The permittee shall calculate the daily discharge volume by multiplying the rated capacity of the pump(s) times the length of time the pump(s) operated each day. Daily river flow rate shall be the daily mean river flow rate obtained from USGS Gaging Station 05429700, near the Forton St. bridge in Stoughton.

1.2.1.3 Sampling Frequency

Whenever the pump is discharging, one sample of the discharge shall be collected each week. Samples shall be tested for all of the parameters in section 1.2.1 above and shall be representative of the discharge from the Pond. The method of sampling shall be agreed upon by the Department.

1.2.1.4 Watershed-Based Trading for New Discharges to Impaired Waters

The permittee may not discharge phosphorus or solids from Paradise Pond to the Yahara River under this permit unless the permittee has entered into a DNR-approved water pollution trading agreement in accordance with s. 283.84, Wis. Statutes, is actively implementing the agreement to offset pollutant discharges to the Yahara River and is in compliance with that agreement. The agreement shall provide compensation for phosphorus and solids loadings from Paradise Pond to the Yahara River at the rate of 1.75, through trades with upstream non-point sources of those pollutants. That is, for every 100 pounds of phosphorus or solids discharged from Paradise Pond to the Yahara River annually, the permittee must provide annual reductions of those pollutants of at least 175 pounds each, from non-point source discharges upstream of the outfall, to the Yahara River. The original agreement, and subsequent modifications, must be approved by the Department in writing before the City can receive credit for any pollutant reduction measure used by the City to offset pollutant discharges from Paradise Pond to the Yahara River. The Department may modify this permit to incorporate a DNR-approved agreement.

1.2.1.5 BOD Variable (Flow-related) Limits

The permittee shall comply with the following flow-related limits for BOD.

Mean Daily River Flow (cfs)	BOD ₅ Weekly Average Limit <u>May – Oct</u> mg/L / lbs/day	BOD ₅ Monthly Average Limit <u>May – Oct</u> mg/L / lbs/day	Mean Daily River Flow (cfs)	BOD ₅ Weekly Average Limit <u>Nov – April</u> mg/L / lbs/day	BOD ₅ Monthly Average Limit <u>Nov – April</u> mg/L / lbs/day
< 15	0 mg/L 0 lb/day	0 mg/L 0 lb/day	< 15	0 mg/L 0 lb/day	0 mg/L 0 lb/day
15 – 53	1.8 mg/L 88 lb/day	1.8 mg/L 88 lb/day	15 – 53	3.6 mg/L 170 lb/day	3.6 mg/L 170 lb/day
54 - 93	9.1 mg/L 440 lb/day	9.1 mg/L 440 lb/day	54 - 93	18 mg/L 850 lb/day	18 mg/L 850 lb/day
94 - 133	17 mg/L 790 lb/day	17 mg/L 790 lb/day	94 - 133	33 mg/L 1500 lb/day	33 mg/L 1500 lb/day
134 - 173	24 mg/L 1200 lb/day	24 mg/L 1200 lb/day	134 - 173	47 mg/L 2200 lb/day	47 mg/L 2200 lb/day
174 - 213	32 mg/L 1500 lb/day	32 mg/L 1500 lb/day	174 - 213	62 mg/L 2900 lb/day	62 mg/L 2900 lb/day
214 - 253	39 mg/L 1900 lb/day	39 mg/L 1900 lb/day	214 - 253	76 mg/L 3600 lb/day	76 mg/L 3600 lb/day
≥ 254	47 mg/L 2200 lb/day	47 mg/L 2200 lb/day	≥ 254	91 mg/L 4300 lb/day	91 mg/L 4300 lb/day

2 Schedules of Compliance

2.1 Pollutant Trading Reports

Report the expected annual pollutant discharge reductions achieved through trading.

Required Action	Date Due
Annual Pollutant Reduction Report: The permittee shall submit a report to the Department annually, that describes the trading partners it cooperated with during the previous year, the DNR-approved pollutant reduction methods used by those partners and the annual reductions of phosphorus and solids discharged to the Yahara River achieved by use of those methods, in pounds per year, as determined by the Dane County Land Conservation Division. Reports are due March 31, annually.	03/31/2009

3 Standard Requirements

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

3.1 Reporting and Monitoring Requirements

3.1.1 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. When submitting a paper Discharge Monitoring Report form, the original and one copy of the Wastewater Discharge Monitoring Report Form shall be submitted to the return address printed 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.

All Wastewater Discharge Monitoring Reports submitted to the Department should be submitted using the electronic Discharge Monitoring Report system. Permittees who may be unable to submit Wastewater Discharge Monitoring Reports electronically may request approval to submit paper DMRs upon demonstration that electronic reporting is not feasible or practicable.

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.

An Electronic Discharge Monitoring Report Certification sheet shall be signed and submitted with each electronic Discharge Monitoring Report submittal. This certification sheet, which is not part of the electronic report form, shall be signed by a principal executive officer, a ranking elected official or other duly authorized representative and shall be mailed to the Department at the time of submittal of the electronic Discharge Monitoring Report. The certification sheet certifies that the electronic report form is true, accurate and complete. Paper reports shall be signed by a principal executive officer, a ranking elected official, or other duly authorized representative.

3.1.2 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 shall be performed by a laboratory certified or registered in accordance with the requirements of ch. NR 149, Wis. Adm. Code. Groundwater sample collection and analysis shall be performed in accordance with ch. NR 140, Wis. Adm. Code. The analytical methodologies used shall enable the laboratory to quantitate all substances for which monitoring is required at levels below the effluent limitation. If the required level cannot be met by any of the methods available in 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.

3.1.3 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.

3.1.4 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 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.

3.1.5 Records Retention

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

3.1.6 Other Information

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

3.2 System Operating Requirements

3.2.1 Noncompliance Notification

- 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 an unanticipated 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.
- 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.

- The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

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**.

3.2.2 Unscheduled Bypassing

Any unscheduled bypass or overflow of wastewater at the treatment works or from the collection system is prohibited, and the Department may take enforcement action against a permittee for such occurrences under s. 283.89, Wis. Stats., unless:

- 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, retention of untreated wastes, 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; and
- The permittee notified the Department as required in this Section.

Whenever there is an unscheduled bypass or overflow occurrence at the treatment works or from the collection system, the permittee shall notify the Department within 24 hours of initiation of the bypass or overflow occurrence by telephoning the wastewater staff in the regional office as soon as reasonably possible (FAX, email or voice mail, if staff are unavailable).

In addition, the permittee shall within 5 days of conclusion of the bypass or overflow occurrence report the following information to the Department in writing:

- Reason the bypass or overflow occurred, or explanation of other contributing circumstances that resulted in the overflow event. If the overflow or bypass is associated with wet weather, provide data on the amount and duration of the rainfall or snow melt for each separate event.
- Date the bypass or overflow occurred.
- Location where the bypass or overflow occurred.
- Duration of the bypass or overflow and estimated wastewater volume discharged.
- Steps taken or the proposed corrective action planned to prevent similar future occurrences.
- Any other information the permittee believes is relevant.

3.2.3 Scheduled Bypassing

Any construction or normal maintenance which results in a bypass of wastewater from a treatment system is prohibited unless authorized by the Department in writing. If the Department determines that there is significant

public interest in the proposed action, the Department may schedule a public hearing or notice a proposal to approve the bypass. Each request shall specify the following minimum information:

- proposed date of bypass;
- estimated duration of the bypass;
- estimated volume of the bypass;
- alternatives to bypassing; and
- measures to mitigate environmental harm caused by the bypass.

3.2.4 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. The wastewater treatment facility shall be under the direct supervision of a state certified operator as required in s. NR 108.06(2), Wis. Adm. Code. 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.

3.2.5 Spill Reporting

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

3.2.6 Planned Changes

In accordance with ss. 283.31(4)(b) and 283.59, Stats., the permittee shall report to the Department any facility expansion, production increase or process modifications which will result in new, different or increased discharges of pollutants. The report shall either be a new permit application, or if the new discharge will not violate the effluent limitations of this permit, a written notice of the new, different or increased discharge. The notice shall contain a description of the new activities, an estimate of the new, different or increased discharge of pollutants and a description of the effect of the new or increased discharge on existing waste treatment facilities. Following receipt of this report, the Department may modify this permit to specify and limit any pollutants not previously regulated in the permit.

3.2.7 Duty to Halt or Reduce Activity

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

3.3 Surface Water Requirements

3.3.1 Permittee-Determined Limit of Quantitation Incorporated into this Permit

For pollutants with water quality-based effluent limits below the Limit of Quantitation (LOQ) in this permit, the LOQ calculated by the permittee and reported on the Discharge Monitoring Reports (DMRs) is incorporated by reference into this permit. The LOQ shall be reported on the DMRs, shall be the lowest quantifiable level practicable, and shall

be no greater than the minimum level (ML) specified in or approved under 40 CFR Part 136 for the pollutant at the time this permit was issued, unless this permit specifies a higher LOQ.

3.3.2 Appropriate Formulas for Effluent Calculations

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

Weekly/Monthly average concentration = the sum of all daily results for that week/month, divided by the number of results during that time period.

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.

3.3.3 Visible Foam or Floating Solids

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

4 Summary of Reports Due

FOR INFORMATIONAL PURPOSES ONLY

Description	Date	Page
Pollutant Trading Reports -Annual Pollutant Reduction Report	March 31, 2009	5
Wastewater Discharge Monitoring Report	no later than the date indicated on the form	6

Report forms shall be submitted to the address printed on the report form. Any facility plans or plans and specifications for municipal, industrial, industrial pretreatment and non industrial wastewater systems shall be submitted to the Bureau of Watershed Management, P.O. Box 7921, Madison, WI 53707-7921. All other submittals required by this permit shall be submitted to:

Mr. Robert Liska, DNR - South Central Region, 3911 Fish Hatchery Road, Fitchburg, WI 53711-5397