



WPDES PERMIT

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

Glacier Rock Enterprises, Inc.

is permitted, under the authority of Chapter 283, Wisconsin Statutes, to store septage in a storage facility and discharge from the facility located at 8923 S Union Rd, Newton, Wisconsin to **groundwater of the Sevenmile and Silver Creeks Watershed (MA01), via land application in Manitowoc County**

in accordance with the septage management 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 _____
Nanette E. Jameson
Wastewater Specialist

Date Permit Signed/Issued

PERMIT TERM: EFFECTIVE DATE - July 01, 2016

EXPIRATION DATE - June 30, 2021

TABLE OF CONTENTS

1 SEPTAGE MANAGEMENT REQUIREMENTS	1
1.1 SAMPLING POINT(S)	1
1.2 RECORD KEEPING REQUIREMENTS AND LIMITATIONS	1
1.2.1 <i>Sampling Point 901 - Septage</i>	1
2 SCHEDULES	6
2.1 MANAGEMENT PLAN	6
3 STANDARD REQUIREMENTS	7
3.1 REPORTING AND MONITORING REQUIREMENTS	7
3.1.1 <i>Recording of Results</i>	7
3.1.2 <i>Records Retention</i>	7
3.1.3 <i>Other Information</i>	7
3.2 SYSTEM OPERATING REQUIREMENTS	7
3.2.1 <i>Noncompliance Notification</i>	7
3.2.2 <i>Prohibited Wastes</i>	8
3.2.3 <i>Proper Operation and Maintenance</i>	8
3.2.4 <i>Spill Reporting</i>	8
3.2.5 <i>Planned Changes</i>	8
3.2.6 <i>Duty to Halt or Reduce Activity</i>	8
3.3 LAND APPLICATION REQUIREMENTS	8
3.3.1 <i>Land Application Report for Septage</i>	8
3.3.2 <i>Other Methods of Disposal or Distribution Report for Septage</i>	9
3.3.3 <i>Approval to Land Apply Septage</i>	9
3.3.4 <i>Land Application Site Evaluation for Septage</i>	9
3.3.5 <i>Septage Hauling</i>	9
4 SUMMARY OF REPORTS DUE	10

1 Septage Management Requirements

1.1 Sampling Point(s)

The discharge(s) shall be limited to land application of the contents of the approved septage storage facility for the listed sampling point(s) on Department approved land application sites or by hauling to another permitted facility.

Sampling Point Designation	
Sampling Point Number	Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)
901	Septage: The following requirements of this permit apply when septage is stored in and removed from the septage storage facility for purposes of land application or disposal.

1.2 Record Keeping Requirements and Limitations

The permittee shall comply with the following record keeping requirements and limitations.

1.2.1 Sampling Point 901 - Septage

1.2.1.1 Daily Inflow Log

Inflow Requirements: The permittee is authorized to store the wastes listed in the Daily Inflow Log and as defined in s. NR 113.03 (21, 26, 56) in the septage storage facility. Use of the septage storage facility is limited to the wastes listed and shall be operated in accordance with the approved management plan. Use of the septage storage facility is limited to the permittee only.

Daily Inflow Log		
Septage Storage Facility Monitoring Requirements		
The permittee shall maintain a daily inflow log that includes operational records of each load of waste hauled to the septage storage facility. These records shall be kept on a daily basis in the vehicle and shall be available for inspection at the office. These records shall be retained for five years.		
Parameters	Units	Sample Frequency
Inflow – Septic Tank	Gallons/Load	Daily
Inflow – Domestic Holding Tank	Gallons/Load	Daily
Inflow – Grease Trap Waste	Gallons/Load	Daily
Inflow to the septage storage facility shall also be totaled daily, monthly and annually for each waste type by the permittee.		

Daily Inflow Log	
Operational Records for Each Load of Waste	
The permittee shall record the following information in the daily inflow log for each load of septage hauled to the septage storage facility:	
<ul style="list-style-type: none"> • pick-up date and time • waste type and quantity • location and name of owner, and • other information specified in s. NR 113.11(3)(c), Wis. Adm. Code, ‘Vehicle Log Book’. 	

1.2.1.2 Daily Discharge Log

Daily Discharge Log				
Discharge Monitoring Requirements and Limitations				
The permittee shall maintain a daily discharge log of wastes removed from the septage storage facility. Originals of the log sheets shall be kept by the permittee as described under “Records Retention” in the Standard Requirements section, and if requested, made available to the Department.				
The total quantity of waste applied on any field shall be reported to the Department as part of the Annual Land Application Report Form, 3400-55.				
Parameters	Limit	Units	Sample Frequency	Sample Type
DNR Site Number(s)		Number	Daily	Log
Type of Waste Applied to Approved Site		Type	Daily	Log
Acres Applied per Site		Acres	Daily	Log
Volume of Waste Applied to Approved Site		Gallons/Day	Daily	Total Daily
Hydraulic Application Rate per Site	13000 Weekly Maximum (1/2 inch per acre/week)	Gal/Acre/Week	Weekly	Total Weekly
Hydraulic Application Rate per Site*	39000 Annual Maximum	Gal/Acre/Year	Annual	Total Annual
Method of Application		Injection, Incorporation, or Surface Applied	Per Application	Log

Daily Discharge Log				
Method of Pathogen Control and Vector Attraction Reduction	See 'Other Septage Requirements' below	Injection, Incorporation or pH Adjustment	Per Application	Log

* Septage shall be land applied in accordance with the application requirements specified in s. NR 113.09, Wis. Adm. Code. The requirements in s. NR 113.09, Wis. Adm. Code, are included by reference in this permit. If the crop to be grown requires less than 100 pounds of available nitrogen per acre, then the application rate must be reduced and may not be applied at a rate that exceeds the amount calculated under the following equation: Gallons/Acre/Year = (Pounds of Nitrogen Required per Acre) ÷ (0.0026)

1.2.1.3 Other Septage Requirements

Other Septage Requirements
Pathogen Control and Vector Attraction Requirements
<p>The permittee shall address pathogen control and vector attraction in one of the following ways:</p> <ol style="list-style-type: none"> 1. Liquid injection 2. Incorporation within 6 hours of surface application, or 3. The pH shall be raised to 12 or higher by alkali addition and without the addition of more alkali, shall remain at 12 or higher for 30 minutes. The pH shall be determined on each truckload using pH paper for the appropriate pH range or an acceptable pH meter. Alternatively, the entire tank contents may be pH adjusted if approved in the management plan, and consistent with that plan. In all cases, pH should be measured in a slurry and corrected to a temperature of 25 deg. C with the following formula: $\text{Correction Factor} = \frac{0.03 \text{ pH units} \times (\text{Measured Temp} - 25 \text{ deg C})}{1 \text{ deg C}}$ <p>Actual pH = Measured pH +/- Correction Factor</p> <p>If either injection or incorporation are utilized to satisfy the pathogen and vector control requirements then the minimum duration between application and harvest or use as specified in s. NR 113.07(3)(d)2, Wis. Adm. Code, shall be maintained.</p>

1.2.1.4 Septage Management

All septage management shall be in conformance with ss. NR 113.04 – 113.09 and ss. NR 113.11 – 113.13, Wis. Adm. Code. A violation of Chapter NR 113 constitutes a violation of this permit.

1.2.1.5 Management Plan

Storage facility operations and land application activities shall be done in accordance with the approved Management Plan. At a minimum, the plan must describe the following:

- *Method utilized to add septage to the storage facility tank(s).
- *Type of wastes to be land applied or disposed.
- *Record keeping system for septage being added to and removed from the storage facility tank(s).
- *How septage will be mixed in the storage facility tank(s).
- *How septage will be removed from the storage facility tank(s).

- *Methods and equipment to be used to land apply the facility contents.
- *Method to be used to track application and loading rates to ensure septage is not overapplied.
- *Procedures to be followed and equipment available to monitor and control emergency events such as a large spill.
- *Notification procedures in case of spills or emergencies. (See the Standard Requirements section for 'Spill Reporting' requirements.)
- *Description of the methods utilized to comply with pathogen and vector control requirements.
- *The method of determining the level of waste in the septage storage tank(s).
- *Information on requested acreage and secured approved acreage and process to secure additional acreage as needed.

If operational changes are needed, the management plan shall be amended by submitting a written request to the Department for approval. The amended management plan shall be submitted for approval at least 60 days prior to implementing the operational changes. An updated management plan shall be submitted with the application for permit reissuance.

1.2.1.6 Free Board

The permittee shall maintain a minimum of one foot of freeboard from the top of the walls to prevent overflowing the septage storage facility.

1.2.1.7 Six Day Notification

The permittee shall notify the Department at least 6 days prior to each period of the anticipated removal of the storage facility contents.

1.2.1.8 Additional Discharge Requirements & Restrictions

The vehicle used for land applying the septage storage facility wastes shall be moving forward at all times when discharge is occurring and shall have a cab actuated discharge valve. Ponding of septage is prohibited. In addition, the vehicle shall be equipped with a distribution system having the ability to spread the waste evenly over a width of 5 feet or greater.

Contents of the septage storage facility shall be mixed prior to land application.

No land application shall occur on frozen or snow covered ground.

1.2.1.9 Approval of High Use Field

A request for approval shall be submitted to the Department per s. NR113.09(2), Wis. Adm. Code, for any site desired for use as a high use field. If the permittee intends to apply septage under this permit to a high use field, the permittee must obtain approval from the Department for the high use field prior to application.

1.2.1.10 Grit, Screenings, Other Waste

Any bulky or non-organic waste that is removed from the septage storage facility during the clean out or maintenance, or any grit or screenings collected, shall be properly disposed of at a licensed solid waste facility (landfill). The landfill must be licensed under Chapter NR 500-536, Wis. Adm. Code.

1.2.1.11 Septage Storage Facility Waste Disposal Reports

See reporting requirements in the Standard Requirements section under Land Application Requirements.

1.2.1.12 Abandonment Conditions

In the event of abandonment the permittee shall:

*Six months prior to abandoning the septage storage facility submit an abandonment plan and schedule of accomplishment to the Department for its review and approval. This abandonment plan shall be in compliance with related local, state and federal rules and regulations.

*Be responsible for all the abandonment procedures.

1.2.1.13 Direct Application Under Septage Business License

This permit does not cover or apply to septage removed from a system and applied directly to fields without first adding it to the storage facility. That activity is still regulated under the permittee's sanitary septage business license and shall be reported separately under that license rather than as part of this permit.

1.2.1.14 License Requirements

The permittee shall obtain and maintain a septage business license under s. NR 113.05, Wis. Adm. Code.

1.2.1.15 Operator Certification

All operators working under this permit shall be certified and an operator-in-charge designated under Subchapter II of Chapter NR 114, Wis. Adm. Code.

2 Schedules

2.1 Management Plan

Required Action	Due Date
Management Plan: Submit a management plan to optimize the land application system performance and demonstrate compliance with Wisconsin Administrative Code NR 113	06/30/2017

3 Standard Requirements

NR 205, Wisconsin Administrative Code: 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 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.

3.1.2 Records Retention

All pertinent septage information, including permit application information and other documents specified in this permit or s. NR 113.12, Wis. Adm. Code, shall be retained for a minimum of 5 years.

3.1.3 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 all events of noncompliance by a telephone call to the Department's regional office within 24 hours after becoming aware of the noncompliance. 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.

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.

The permittee shall notify the Department in accordance with s. NR 205.07(1)(s) of noncompliance that may endanger health or the environment.

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 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 facility;
- which will cause corrosive structural damage to the facility;
- solid or viscous substances in amounts which cause interference with the proper operation of the facility;

3.2.3 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, including appropriate quality assurance procedures.

3.2.4 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.

3.2.5 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.

3.2.6 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 Land Application Requirements

3.3.1 Land Application Report for Septage

Land Application Report Form 3400-55 shall be submitted by January 31, following each year septage is land applied by the permittee.

3.3.2 Other Methods of Disposal or Distribution Report for Septage

The permittee shall submit Report Form 3400-52 by January 31, following each year septage is hauled to another facility by the permittee.

3.3.3 Approval to Land Apply Septage

Septage may not be applied to a land application site by the permittee without a written site approval letter or Form 3400-122 from the Department.

3.3.4 Land Application Site Evaluation for Septage

The permittee may use land application sites provided the sites meet all applicable provisions of Wisconsin Administrative Code Chapter NR 113 and have been approved in writing by this Department. If the permittee wishes to have approval for additional sites, application shall be made using Landspreading Site Evaluation Form 3400-53. Complete information shall be submitted about each site, including plat, topographical and soil maps, aerial photograph of the site, any soil analyses results, and other information showing that the site complies with all application requirements. Land application may commence on a new site when a proposed site has been approved by the Department. The Department may issue a written notice to withdraw approval for any site that is found to be environmentally unacceptable or violates the conditions of this permit. A permittee may not land apply septage on sites that have been withdrawn by the department or that have not been approved by the department.

It is the permittee's responsibility to locate land application sites that meet the land application criteria set forth in ch. NR 113, Wis. Adm. Code.

3.3.5 Septage Hauling

If septage is hauled to another facility by the permittee, the permittee is required to submit Form 3400-52 to the Department. Information shall include the quantity of septage 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 following each year septage is hauled by the permittee.

4 Summary of Reports Due

FOR INFORMATIONAL PURPOSES ONLY

Description	Date	Page
Management Plan -Management Plan	June 30, 2017	6
Land Application Report Form 3400-55	by January 31, following each year septage is land applied by the permittee	8
Report Form 3400-52	by January 31, following each year septage is hauled to another facility by the permittee	9

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, or septage storage facilities, 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, 2984 Shawano Avenue, Green Bay, WI 54313-6727