

**AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1 NATIONAL LIFE DRIVE, MAIN 2
MONTPELIER, VT 05620-3521**

**DRAFT INDIRECT
DISCHARGE PERMIT**

Permit No.: ID-9-0149
PIN : EJ96-0321

SECTION A "ADMINISTRATION"

In compliance with provisions of 10 V.S.A. §1263, and in accordance with the following conditions, the permittee:

Saga, Inc.
dba Lakehurst Campground
204 Lakehurst Road
Isle La Motte, VT 05463

is authorized to discharge treated domestic sewage from an existing disposal system serving Lakehurst Campground in Isle La Motte, Vermont, to groundwater and indirectly to the Upper Lake Champlain.

A1. Permit Summary:

Expiration Date	September 30, 2021
Type of Waste	Treated Domestic Sewage
Treatment System	Aerated Lagoon
Disposal System	Trickle System on Ground Surface
Town	Isle La Motte
Drainage Basin	Upper Lake Champlain
Receiving Water	Upper Lake Champlain
Design Capacity	31,250 gallons per day
Dates of Operation of Disposal System	May – October

A2. Compliance Schedule:

The following schedule summarizes the actions and requirements necessary for compliance with the conditions of this permit. The permittee shall complete the requirements in accordance with the dates indicated. See the designated section for specific details.

<u>Condition # & Description</u>	<u>Schedule Date</u>
A3. Apply for renewal of Indirect Discharge Permit	By June 30, 2021
D3(A). Have a Vermont Registered Professional Engineer complete an inspection of sewage collection, treatment and disposal system	Annually between May 15th and June 15th
D3(B). Submit Annual Inspection Report	Annually by July 15th
D3(C). Submit Schedule for Implementing engineer's recommendations	Annually by July 15th
D7. Employ Grade I Operator	As specified
E2. Record volume of effluent	Daily
E3. Measure level in the lagoon	Daily
E2, E3 Submit wastewater volume and level measurements	By the 15th of the following month
E4. Collect and analyze effluent samples	Once per month May through September
E4. Submit results of analysis	By the 15th day of the second month

A3. Expiration Date:

This permit, unless revoked, or amended shall be valid until September 30, 2021 despite any intervening change in Water Quality Standards or the classification of receiving waters. Renewal of this Indirect Discharge Permit will be subject to all rules applicable at the time of renewal, including biological standards to determine significant alteration of aquatic biota.

A3. Expiration Date (continued):

The permittee shall apply for an Indirect Discharge Permit renewal by June 30, 2021 for continued authorization to discharge treated domestic sewage beyond the permit expiration date. For the purposes of Title 3, an application for renewal of this indirect discharge permit will be considered timely if a complete application is received by the expiration date.

A4. Effective Date:

This permit becomes effective on October 1, 2016.

A5. Revocation:

The Secretary may revoke this permit in accordance with 10 V.S.A. §1267.

A6. Transfer of Permit:

This permit is not transferable without prior written approval of the Secretary. The permittee shall notify the Secretary immediately, in writing, before any sale, lease or other transfer of ownership of the property from which the permitted discharge originates. The proposed transferee shall make application for a permit to be reissued in their name. Failure to apply shall be considered a violation of this permit. Responsibility for compliance with the conditions of this permit shall be the burden of the permittee until such time as transfer of the permit to the transferee is complete. All application and operating fees must be paid in full prior to transfer of this permit. This permit shall be transferred only upon showing by the permittee or proposed transferee of compliance with the following conditions:

- a. The transferee shall be a legal entity, financially and technically competent to operate, inspect, maintain and replace the system.
- b. The transferee shall demonstrate that they have the legal authority to raise revenues for the proper operation, inspection, and maintenance of the system.
- c. The transferee shall provide a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee(s) to the Secretary.

A7. Minor Modifications of Permit:

The Secretary may modify this permit without requiring a permit application, a public notice, or a public hearing to correct typographical errors, or to increase the monitoring frequency in accordance with Condition E(7) of this permit.

A8. Indirect Discharge Rules:

This permit authorizes an existing indirect discharge.

This indirect discharge was reviewed and qualified for an Indirect Discharge Permit in accordance with Section 14-403 (A) of the Indirect Discharge Rules for existing indirect discharges of sewage. No increase in sewage volume is allowed without the written approval of the Secretary.

A9. Right of the Agency to Inspect:

The permittee shall allow the Secretary or the Secretary's authorized representative, upon the presentation of their credentials, and at reasonable times:

- a. To enter upon permittee's premises in which any effluent source, treatment or disposal system is located or in which any records are required to be kept under the conditions of the permit;
- b. To have access to and copy any records required to be kept under conditions of this permit;
- c. To inspect any monitoring equipment or method required in this permit;
- d. To sample any discharge of waste, groundwater or surface water; and
- e. To inspect any collection, treatment, pollution management and disposal facility required by this permit.

A10. Permit Availability:

A copy of this permit shall remain at the office of the permittee and upon request shall be made available for inspection by the Secretary.

A11. Minor Modifications to System:

Minor modifications of the engineering design which do not reduce the treatment effectiveness or increase the capacity of the system may be approved in writing by the Secretary without permit amendment.

Before making modifications to the treatment and/or disposal system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any of the modifications or additions are made.

A12. Correction of Failed System:

The Secretary may, upon discretion, issue an amendment to the Indirect Discharge Permit for the design and reconstruction of a failed wastewater disposal system where the replacement system design was not previously approved.

Before reconstruction of the failed system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any reconstruction occurs. Due to the urgency of the need to correct failed disposal systems, the Secretary will process these amendments as soon as possible.

A13. Operating Fees:

This indirect discharge is subject to operating fees. The permittee shall submit the operating fees in accordance with procedures provided by the Secretary.

SECTION B "INDIRECT DISCHARGE"

B1. Location of Indirect Discharge:

This existing indirect discharge is located in the Upper Lake Champlain drainage basin in the town of Isle La Motte, Vermont. The indirect discharge can be located on the USGS North Hero, Vermont - New York 7.5' quadrangle map at Latitude N 44°50'40" and Longitude W 73°20'25".

B2. Nature of Indirect Discharge:

The wastewater from the sites flows by gravity through a collection system, through a traveling screen and into a 500 gallon holding tank. The wastewater is then pumped to an aerated lagoon with an approximate volume of 480,000 gallons. The lagoon level is maintained by using an overflow pipe which feeds into a 500 gallon holding tank. The treated wastewater is then pumped through a check valve, a flow meter, and approximately 1,000 feet of PVC pipe and disposed of by a trickling line in a wooded area. Chlorination occurs after the flow meter. The wastewater disposal system is approved for operation during the months of May through October.

If the present system fails, the permittee must proceed with design and construction of a new system in accordance with Section A12 of this permit.

SECTION C "SYSTEM APPROVALS"

C1. Previous Approvals:

There are no known previous approvals issued by the Secretary for this system. The permittee reported there are no design plans available for the system.

Based on the present use of the existing facility, the wastewater demand was calculated in accordance with an Environmental Protection Rules Guidance dated October 3, 1985, as follows:

250 Travel Trailer Sites with individual water and sewer hookups
x 125 gallons per day per site = 31,250 gallons per day.

SECTION D "SYSTEM OPERATION"

D1. General Operating Requirements:

The sewage treatment and disposal system shall be operated at all times in a manner that will: (1) not permit the discharge of untreated sewage onto the surface of the ground; (2) not result in the surfacing of sewage; (3) not result in the direct discharge of sewage into the waters of the State; and (4) not result in a violation of the Vermont Water Quality Standards.

The disposal area shall be operated at all times in accordance with the following:

- a. No disposal shall be conducted if there is any surface runoff occurring within the disposal area.
- b. The vegetation in the disposal area shall be managed to optimize uptake of the effluent.

In accordance with accepted design practices, the effluent disposal rate to the disposal area shall not exceed 31,250 gallons per day except as may occur on an occasional basis during normal operation.

D2. Effluent Limits:

The effluent from the aerated lagoon prior to disposal shall comply at all times with the following limits:

<u>Parameter</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>
Biochemical Oxygen Demand (5-day)	30 mg/L	50 mg/L
Total Suspended Solids	30 mg/L	50 mg/L
E. Coli	N/A	77 col/100 mL
Chlorine Residual (at trickle pipe)		
(a) Total or	N/A	4 mg/L (minimum)
(b) Free	N/A	1 mg/L (minimum)

D3. Annual Inspection, Report and Implementation Schedule:

A. Annual Inspection:

Annually between May 15th and June 15th, the permittee shall retain a Vermont Registered Professional Engineer to make a thorough inspection, evaluation, and report of the complete sewage collection, treatment and disposal system. The engineer's inspection shall include, but not be limited to the following:

1. inspecting the entire collection system, removing manhole covers to observe the condition of the sewers and manholes, and noting any signs of inflow or excess infiltration;
2. verification of the proper operation of system components, including the lift station pumps, alarms, and controls and the proper operation of the aeration system in the lagoon;
3. walking the lines in the disposal area and checking for the proper operation of the disposal system, noting any repairs needed and any areas of erosion or concentrated surface runoff;
4. evaluating the performance of the of the sewage treatment facility over the past year against the permitted effluent limits; and
5. noting any necessary repairs or maintenance that needs to be performed on the sewage collection, treatment, and disposal system.

B. Annual Inspection Report:

By July 15th each year, the permittee shall have a Professional Engineer submit an annual report including the following items:

1. a complete list of the items inspected and the results of the inspection;
2. a discussion of the recommended repairs and maintenance required; and
3. an evaluation of compliance with the effluent limits during the previous year, and propose any changes required to assure continued compliance.

C. Implementation Schedule:

By July 15th each year, the permittee shall notify the Secretary in writing stating how the engineer's recommendations are to be implemented, including a schedule for the repair and maintenance items not yet completed.

D4. System Operation and Maintenance:

Warning signs shall be posted to warn the public against entering the treatment and disposal areas and possible direct contact with the effluent.

The sewage collection, treatment, and disposal system shall be operated and maintained at all times in a manner satisfactory to the Secretary and in a manner that will not pose a risk to the public health and safety, or cause contamination of drinking water supplies, groundwater and/or surface water.

D5. Reporting of Failures:

The permittee shall immediately report any failure of the sewage collection, treatment, or disposal system to the Secretary, first by telephone within 24 hours of the failure and then in writing within 5 days of the failure. The written notice shall include a discussion of the actions taken to correct the failure.

D6. Discharge Restrictions:

The permittee shall not allow any person to discharge or cause to be discharged anything other than sanitary sewage to the collection, treatment and disposal system.

D7. Operator Certification:

The permittee is required at all times to employ a wastewater treatment facility operator with a minimum Grade I operator certificate from the Secretary. The permittee shall notify the Secretary, in writing, of any change in operator.

SECTION E "MONITORING"

E1. Laboratory:

The laboratory used for sample analysis shall demonstrate successful performance for U.S. EPA check samples for all parameters and shall analyze any check samples provided by the Secretary. Failure to obtain an acceptable result for either the Secretary or EPA check samples may be a basis for requiring an alternate analytical laboratory.

E2. Wastewater Volume:

The permittee shall record the total volume of effluent discharged to the disposal fields and time the readings are taken during the days of operation of the system. The total daily volume of effluent, individual meter readings and the times the readings were taken shall be submitted to the Secretary by the 15th of the month following the month of measurement.

E3. Aerated Lagoon:

The aerated lagoon level shall be measured and recorded daily from May through September. The measurements shall be submitted to the Secretary prior to the 15th of the month following the month of measurement.

E4. Effluent Monitoring:

The effluent from the aerated lagoon shall be sampled and analyzed for the following parameters:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Frequency</u>
Biochemical Oxygen Demand (BOD) (5-day)	mg/L	grab ¹	Monthly, May - September
Total Suspended Solids (TSS)	mg/L	grab ¹	Monthly, May - September
E. Coli	Colonies/100 mL	grab ¹	Monthly, May - September
Total or Free Chlorine Residual	mg/L	grab ¹	Daily during operating season

Note 1: The BOD, TSS, E. Coli and Total or Free Chlorine Residual samples shall be taken at the "Mid-Line" sample location. The results of the effluent analysis shall be submitted to the Secretary prior to the 15th day of the second month following the month of sampling.

E5. Sampling and Testing Procedures:

All wastewater and groundwater sampling, preservation, handling and test procedures used to comply with the monitoring requirements herein shall conform to procedures specified in the most current edition of Standard Methods for the Examination of Water and Wastewater APHA-AWWA-WPCF, and Vermont Water Quality Standards unless written approval of an alternate method is received from the Agency.

E6. Miscellaneous:

If the permittee monitors any parameter more frequently than required by this permit, the results of such monitoring shall be submitted to the Secretary. All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years or longer if requested by the Secretary. Records shall include laboratory bench sheets showing exact location, time, composites of sample as well as analytical procedures used, interim results obtained, and all calculations supporting the reported test results.

E7. Monitoring Requirement:

No additional water quality monitoring of the system is required under this permit. However, the Secretary reserves the right to require monitoring of the system in accordance with Condition A(7) should operation of the system fail to meet the requirements of Sections D(1) and D(4).

SECTION F "COMPLIANCE REVIEW"

If the results of any inspection or monitoring indicate that a violation of the effluent disposal rate or a violation of the Vermont Water Quality Standards is occurring, or is likely to occur, the Secretary may require the permittee to take appropriate corrective actions to eliminate or reduce the possibility of a violation.

The issuance of this permit, ID-9-0149, to Saga, Inc. dba Lakehurst Campground by the Secretary relies upon the data, designs, judgment and other information supplied by the applicant, the applicant's consultants and other experts who have participated in the preparation of the application. The Secretary makes no assurance that this system will meet the performance objectives of the applicant and no warranties or guarantees are given or implied.

SECTION G "EFFECTIVE DATE"

This Indirect Discharge Permit, ID-9-0149, issued to Saga, Inc. for the discharge of treated domestic wastewater from the Lakehurst Campground located in Isle LaMotte, Vermont, is effective on October 1, 2016.

Alyssa B. Schuren, Commissioner
Department of Environmental Conservation

By _____ **DRAFT** _____
Bryan Redmond, Director
Drinking Water and Groundwater Protection Division

Date: _____