

**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-9-0091
PIN: BR89-0006

SECTION A - "ADMINISTRATION"

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

Harwood Union School District
Harwood Union High School
458 VT Route 100
South Duxbury, Vermont 05660

is authorized to discharge treated domestic sewage from an existing subsurface wastewater disposal system serving the Harwood Union High School in Duxbury, Vermont to groundwater and indirectly into Dowsville Brook.

A1. Permit Summary:

Expiration Date	June 30, 2021
Type of Waste	Domestic Sewage
Treatment System	Septic Tanks
Disposal System	Leachfield
Town	Duxbury
Drainage Basin	Winooski River
Receiving Stream	Dowsville Brook
Drainage Area	Approx 5.0 square miles
Stream Flow:	
Low Median Monthly Flow (LMMF)	Est. 2,000,000 gallons per day
Design Capacity	20,000 gallons per day
Dilution Ratio	
(stream flow to effluent)	100 to 1 at LMMF

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	March 31, 2021
D2(A). Have a Vermont Registered Professional engineer complete an inspection of sewage collection, treatment and disposal system.	Annually in April
D2(B). Submit Annual Inspection Report	Annually by July 1st
D2(C). Submit Schedule for Implementing engineer's recommendations	Annually by July 1st
D3. Notify Secretary of pumping of septic tanks and septage disposal location	As specified
E1. Record Water Meter Readings	Daily
E2. Sample septic tank effluent and analyze for BOD5 and TSS	Twice during school year, in October and April

A3. Expiration Date:

This permit, unless revoked, or amended shall be valid until June 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.

The permittee shall apply for an indirect discharge permit renewal by March 31, 2021. 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 July 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. 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 systems.
- 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 permittees 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(3) 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 facilities 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. Modifications and Additions 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 Systems:

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.

SECTION B - "INDIRECT DISCHARGE"

B1. Location of Indirect Discharge:

This existing indirect discharge is located in the Winooski River drainage basin in the Town of Duxbury, Vermont. The indirect discharge can be located on the USGS Waterbury, VT 7.5' quadrangle map at Latitude N 44° 15' 10" and Longitude W 72° 47' 10".

B2. Nature of Indirect Discharge:

According to the approved plans for the sewage disposal system, the sewage is treated in two septic tanks in series before being pumped to the disposal area. The wastewater disposal system consists of four seepage beds with an approved disposal capacity of 20,000 gallons per day (gpd).

The design capacity of the sewage treatment and disposal system was calculated as follows: $1,000 \text{ students} \times 20 \text{ gpd/student} = 20,000 \text{ gpd}$

SECTION C "SYSTEM APPROVALS"

C1. Previous Approvals:

The sewage treatment and disposal system was previously approved under Wastewater System and Potable Water Supply Permit WW-5-0148 on September 20, 1989. The plans and specifications, prepared by Gil Barlow, P.E. of Knight Engineering, Inc., were:

- a. Sheet S-1, entitled "Site Plan," dated August 25, 1989;
- b. Sheet S-2, entitled "Site Details," dated August 25, 1989;
- c. Sheet S-3, entitled "Site Details," dated August 25, 1989;
- d. The project specifications, entitled "Contract Documents - Sewage Disposal System Upgrade - Harwood Union High School," dated August 21, 1989;
- e. Addendum #1, entitled "Harwood Union High School - Sewage Disposal System Upgrade," dated August 31, 1989 and
- f. Addendum #3, entitled "Harwood Union High School - Sewage Disposal System Upgrade," dated September 7, 1989.

SECTION D "SYSTEM OPERATION"

D1. General:

The sewage treatment and disposal system shall be operated at all times in a manner that will (1) not permit the discharge of 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.

In accordance with accepted design practices, the effluent disposal rate to the disposal fields shall not exceed 20,000 gallons per day except as may occur on an occasional basis during normal operation.

D2. Annual Inspection, Report and Implementation Schedule:

A. Annual Inspection:

Annually during the month of April, the permittee shall retain a professional engineer registered in the State of Vermont to make a thorough inspection, evaluation, and report of the complete sewage treatment and disposal system. The engineer's inspection shall include, but not be limited to the following:

1. verifying the proper operation of the lift station pumps, alarms and controls;
2. evaluating the accumulation of solids and scum in the septic tanks and determining if the septic tanks should be pumped out that year;
3. walking the disposal fields and their perimeter, checking for evidence of surfacing sewage;
4. measuring the depth to water in the observation wells, and
5. noting any necessary repairs, or maintenance that needs to be performed on the sewage treatment and disposal system.

B. Annual Inspection Report:

By July 1st each year, the permittee shall have a professional engineer submit an annual inspection report including the following items:

1. a complete list of the items inspected and the results of the inspection;
2. the measured depths of sludge and scum in each septic tank; and
3. a discussion of the recommended repairs and maintenance required.

C. Implementation Schedule:

By July 1st 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 recommended repairs and maintenance items that have not yet been completed.

D3. Septage Disposal:

During the system's annual inspection, the depth of sludge and scum shall be measured in all septic tanks. The septic tanks shall be pumped if: 1) the sludge is closer than twelve (12) inches to the outlet baffle or; 2) the scum layer is closer than three (3) inches to the septic tank outlet baffle or; 3) if otherwise recommended by the inspecting engineer. The permittee shall notify the Secretary in writing of the name and address of the pumper and municipal sewage treatment facility or other approved facility where the septage was or is to be disposed.

D4. System Operation and Maintenance:

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 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 or to be 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 this collection, treatment and disposal system.

SECTION E "MONITORING"

E1. Water Meter Readings:

The permittee shall record the water meter readings from the meter on the water supply system each day. The water meter readings shall be taken at approximately same time each day that school is in session. The water meter records and the gallons of water used each day shall be submitted to the Secretary by the 15th day of April, July, October, and January for the previous quarter.

E2. Effluent Sampling:

During months of October and April of every year, the permittee shall sample the septic tank effluent and have the samples analyzed for Biochemical Oxygen Demand (5-day) and Total Suspended Solids concentrations. The results of the analyses shall be submitted to the Secretary by the 15th day of the second month following sampling.

E3. Monitoring Requirements:

No 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-9-0091, to the Harwood Union School District by the Secretary relies upon the data, designs, judgment and other information supplied by the applicant, his 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-9-0091, issued to the Harwood Union School District for the discharge of treated domestic sewage from Harwood Union High School located in Duxbury, Vermont is effective on July 1, 2016.

Alyssa B. Schuren, Commissioner
Department of Environmental Conservation

By: _____ **DRAFT** _____ Date: _____
George Desch, Acting Director
Drinking Water and Groundwater Protection Division