



GROUNDWATER DISCHARGE PERMIT FORM

Drinking Water and Groundwater Bureau

Groundwater Discharge Program



RSA/Rule: RSA 485-A:6, VII; 485:3, X; Env-Wq 402

The GROUNDWATER DISCHARGE PERMIT is a permit issued under RSA 485-A:13 and Env-Wq 402 for the discharge of wastewater to the ground or groundwater. Examples of facilities needing a groundwater discharge permit include rapid infiltration basins, unlined wastewater, septage and sludge lagoons, septic systems not meeting applicable nitrate setback requirements, spray irrigation using treated wastewater and facilities discharging wastewater containing regulated contaminants that are treated with Best Available Technology.

SUBMIT

- ☐ ONE SIGNED AND COMPLETED APPLICATION (Applicant shall provide a copy to town/city clerk)
- ☐ SUPPORTING INFORMATION
- ☐ \$1,000 APPLICATION FEE (in the form of a check payable to the "Treasurer-State of NH". (State and local government including counties and political subdivisions are exempt)

TO: NHDES--Water Division
Groundwater Discharge Permit Coordinator
Drinking Water & Groundwater Bureau
P.O. Box 95
Concord, NH 03302-0095

FOR STATE USE ONLY

Date Received: 6/28/19

Site No: _____

Rivers Coordinator Notified Date: _____

If you have any questions, please contact the Groundwater Discharge Permit Coordinator at (603) 271-2858.

CERTIFICATION OF NOTICE TO LOCAL TOWN/CITY CLERK

In order to meet the requirements of Env-Wq 402.16(b), the undersigned certifies that on 6/26/19 (date) a copy of this completed permit application was given to the Town/City Clerk of Tamworth (the town in which the facility for which a permit is needed or is proposed to be located).

Date: 6/26/19

Signed: _____

Applicant

I. Activity Type

- ☐ Discharge from an unlined domestic wastewater lagoon.
- ☐ Discharge from an unlined septage or sludge lagoon.
- ☐ Land application of domestic wastewater.
- ☐ Discharge of domestic wastewater from a subsurface disposal system with a design flow equal to or greater than 20,000 gallons per day.
- ☐ Discharge of domestic wastewater from subsurface disposal systems with aggregate design flows equal to or greater than 1,000 gpd for a single lot where minimum nitrate setback distances are not met.
- ☒ Discharge of nondomestic wastewater which contains a regulated contaminant and which has received treatment by Best Available Technologies before discharge.

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CHK # 1139
\$1000.00

II. Applicant Information

Name: Pine Tree Power - Tamworth LLC. Daytime Phone: _____
 Mailing Address: 469 Plains Road
 City: Tamworth State: New Hampshire Zip: 03886
 Contact Person Name: Jason Joubert Email: jason.joubert@engie.com
 Contact Person: Phone Number (603) 323-8187 Fax Number: _____

III. Facility Information

Name: Pinetree Power - Tamworth LLC.
 Address: 469 Plains Road
 City: Tamworth State: New Hampshire Zip: 03886
 Property Tax Map: 212 Lot Number 20
 Latitude & Longitude of discharge point(s) 43°50'13.00"N 71°12'1.50"W
 Deed Reference (if applicable): County Carrol County Book and Page: Book 2544 Page 0377

IV. Facility Owner (complete only if different then Applicant)

Owner Name: _____ Daytime Phone: _____
 Mailing Address: _____
 City/Town: _____ State: _____ ZIP: _____
 Contact Person Name: _____ Email: _____
 Contact Person: Phone Number: _____ Fax Number: _____

V Property Owner (complete only if different then Applicant)

Name: _____ Daytime Phone: _____
 Mailing Address: _____
 City: _____ State: _____ Zip: _____
 Contact Person Name: _____ Email: _____
 Contact Person: Phone Number: _____ Fax Number: _____

[* NOTE: The permit shall be obtained by the property owner unless a deeded easement, for a minimum of 20 years, has been granted by the property owner to the applicant for exclusive use of the groundwater as a receiving medium for discharged wastewater.]

VI. Facility Operator (complete only if different from facility owner)

Facility Operator Name: _____ Daytime Phone: _____
 Mailing Address: _____
 City: _____ State: _____ Zip: _____

VII. Facility Activity Information

Briefly describe the facility, its intended capacity and types of waste or wastewater handled, together with supporting information describing the process involved in the pretreatment, treatment, storage or disposal of the waste or wastewater (attach additional sheets as necessary).

See Attached Report

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VIII. Discharge

- A. Type of discharge (primary or secondary domestic wastewater effluent, septage, etc.). Attach analytical results, if available: _____
 Volume of discharge (GPD): up to 100,000 Septage (GPY) 0
 Proposed Discharge Schedule: Daily with cycling of basins
 Total number of designed discharge points (i.e. leachfield, dry wells): (4) rapid infiltration basins
 Latitude & Longitude of all Discharge Points: 43°50'8.32"N 71°12'2.36"W
 Hydraulic loading rate(s) (attach calculations, if applicable): See Attached Report
 Estimated construction time and projected start-up date (for new facilities only): 3 basins to be constructed and put into use upon permit approval
- B. In the case of industries, all pertinent information relating to processes, production and associated waste streams and treatment shall be included with this application.

IX. Supporting Information

Use this check list as a guide to submitting all needed information, check "Y" (Yes), or "NA" (Not Applicable). If your activity is not directly described, submittal requirements will be determined on a case by case basis. If you check "NA" in the following checklist, please submit a comprehensive narrative of the activities to be permitted.

- | Y | N/A | |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | A. An original or color photocopy of a USGS map (7½ minute series if available) which clearly identifies the facility location or a map that depicts equivalent features at a similar scale. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | B. For discharges of domestic wastewater, a groundwater discharge zone map, using a tax map as a base, which identifies and locates the following: |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1. Groundwater discharge zone boundary; |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Deeded easements which restrict the use of the groundwater; |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. Streets within 1,000 feet of the groundwater discharge zone; |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Properties (including tax map and lot, ownership and land use information) within 1,000 feet of the groundwater discharge zone; |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. Surface water bodies within 1,000 feet of the groundwater discharge zone including their designated river classification; |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6. Boundary of the 100-year flood zone and identification of the 100-year base flood elevation if within 1,000 feet of the discharge area; |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Water supply sources (including type of use) within 1,000 feet of the groundwater discharge zone; and |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. Source water protection areas within 1,000 feet of the groundwater discharge zone. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | C. Detailed scaled facility plan prepared in accordance with the following: |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The plan shall include a title, a legend and a true north arrow; |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The plan shall be drawn to scale and the scale shall be noted on the plan and include a graphic scale bar; |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. The base plan sources from which the facility plan was derived shall be noted on the plan; |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The location, elevation and datum of a bench mark shall be included. If a bench mark referenced to the National Geodetic Vertical Datum (NGVD) is within 1,000 feet of the facility, the elevation shall be recorded using NGVD, and the source of the NGVD bench mark information shall be noted on the plan; |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Ground surface spot elevations and appropriate contours shall be shown. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The facility plan shall identify and locate the following: |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Wastewater application and unlined lagoon areas including total land area available and area to be used; |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Existing/proposed groundwater monitoring wells/piezometers that will be monitored; |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | c. Surface water sampling points; |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. Groundwater contours within 100 feet of the groundwater discharge zone; |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | e. Surface water bodies within 100 feet of the groundwater discharge zone; |

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Y N/A

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- f. Deeded easements which restrict the use of groundwater;
 g. Groundwater discharge zone boundaries;
 h. Land surface contours within 100 feet of the groundwater discharge zone;
 i. A table of groundwater elevations from monitoring wells and piezometers used to develop the groundwater contours and/or used to develop groundwater contours and estimate mounding;
 j. Soil borings and test pits within 100 feet of the groundwater discharge zone;
 k. Physical structures and buildings associated with the facility;
 l. Surface and underground storage tanks associated with the facility;
 m. Underground utilities at the facility; and
 n. Subsurface drains at the facility.

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7. All plans and specifications shall be dated, signed, and sealed by the engineer of record, as that term is defined in RSA 310-A:2, III.

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D. In addition to the facility plan, a copy of the plan scaled to fit on an 8½" x 11" or 11" x 17" sheet and modified to make the items in Part IX (C) above legible.

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E. For existing facilities, a table summarizing all monitoring results from the existing monitoring points from 5 years previous to application date.

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F. A list of reports on land use history, activities, water quality and hydrogeology associated with the property on which the facility is located.

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G. A detailed proposal for a water quality monitoring program, including proposed monitoring schedule, parameters to be analyzed and monitoring locations, with supporting information justifying the locations, frequency and parameters selected.

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H. A table of locational coordinates for monitoring wells and surface water quality points that are proposed in the water quality monitoring program for the facility, referenced to North American datum of 1983 (NAD83) or world geodetic systems of 1984 (WGS84) in degrees-minutes-seconds, decimal degrees or equivalent state plane coordinate units.

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I. A nitrate migration study for domestic wastewater or a regulated contaminant movement study for a discharge of other than domestic wastewater.

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J. For a new discharge site or an existing discharge site that is being expanded:

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1. A site specific soil map of the proposed groundwater discharge zone prepared in accordance with the site specific soil mapping standards for New Hampshire and Vermont; and

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2. A hydrogeologic site assessment and study that includes a description of the geology of the site, including a description of surficial geologic materials and thickness, estimates of hydraulic conductivity, hydraulic gradients, seepage velocity, groundwater flow, ambient groundwater quality, estimated infiltration rates, and intended loading rates; and

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3. All supporting site specific data, documentation and calculation to support the estimates and descriptions provided.

☒ ☐

K. Verification from the Department of Resources & Economic Development that no presence of threatened or endangered species exists on the site.

☒ ☐

L. Test pit data and boring log data as outlined and in accordance with Env-Wq 402.15 (d) (1)-(3) including textural description, drilling methods, blow counts and water table observation.

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M. Well construction details of existing monitoring wells, top of well casing elevations, measured depth to water table from top of casing.

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N. Documentation, filed in the registry of deeds, which acknowledges that the use of groundwater within the groundwater discharge zone for drinking water wells shall be restricted by easement ownership rights, (if the applicant does not own all applicable land).

☐ ☒

O. Status of Division approval of design plans and operations manual for the wastewater treatment system.

☐ ☒

P. If a certified wastewater treatment plant operator is required under RSA 485-A, a copy of the certification or status or the operator/applicant.

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Q. A copy of the permit, or application if a permit is not yet issued, for:

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1. A site specific permit for drainage and erosion control measures;

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2. A septage or sludge management permit; and

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3. A dam permit for bermed or dammed structures.

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X. Permit Issuance Information

- A. Within 90 days from the receipt of a complete permit application the Department of Environmental Services (the department) shall issue a permit for a period of five years subject to renewal or deny the application. The department shall notify the applicant of its decision in writing.
- B. The department shall place conditions upon a groundwater discharge permit as required to assure conformance with these rules.
- C. The department may enter any permitted facility for the purpose of collecting information, examining records, collecting samples or undertaking other action associated with the permit.
- D. The permittee shall submit to the department before facility start-up, an as-built site plan on an 8½" x 11" or 11" x 17" sheet, boring logs and well construction details of wells installed after permit issuance.
- E. The permittee shall submit one complete set of water quality results to the department before facility start-up.
- F. The permittee shall apply for the renewal of the permit 90 days prior to its expiration date. The permittee shall continue to comply with all conditions in the original permit until permit renewal or facility closure. (See Env-Wq 402.28 for renewal criteria and Env-Wq 800 for closure requirements).
- G. A permittee may request a permit modification or permit termination by submitting a written request to the department, including the reasons for the modification or termination and a table (in a format prescribed by the department) summarizing all monitoring results to date from existing monitoring points. The department shall modify or terminate the permit or deny the request, stating the reasons for the denial in writing, within 90 days of receipt of the request. (See Env-Wq 402.29 for further information).
- H. Prior to transfer of ownership of a facility, the permittee shall file a written request with the department for a transfer of the permit to the new owner. The request shall include a summary of all monitoring results to date in a format prescribed by the department. Within 90 days of receiving a request for transfer, the department shall notify the present permittee and the new permittee of its decision in writing. Within 90 days from the date of approval of transfer, the new permittee shall notify the department in writing of its acceptance of the permit. (See Env-Wq 402.30 for further information).

XI. Applicant/Owner Certification Statement and Signature

By signing this application the signer certifies that the information contained in or otherwise submitted with this application is true, complete and not misleading to the best of the signer's knowledge and belief.

By signing this application the signer understands that submission of false, incomplete or misleading information is grounds for:

- Denying the application;
- Revoking any application that is granted based on the information; and
- If the signer is acting as, or on behalf of, a listed engineer as defined in Env-C 502.10, debarring the listed engineer from the roster.

By signing the application, the signer and applicant agree to comply with all applicable rules and conditions of this permit and to not discharge to the holding tank(s) until written permission from the department has been received.



Signature of Facility Owner or Agent



Date

No liability is incurred by the State by reason of any approval for a Groundwater Discharge Permit. Approval by the Department is based on information supplied by the applicant. No guarantee is intended or implied by reason of any advice given by the department or its staff.

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