

**WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT****LAWS/REGULATIONS INVOLVED**

10 V.S.A. Chapter 64, Potable Water Supply and Wastewater System Permit  
Wastewater System and Potable Water Supply Rules, Effective September 29, 2007  
Chapter 21, Water Supply Rules, Effective December 1, 2010

**Landowner(s): Beatrice M Dike Trust****Permit Number: WW-138-1406**  
**PIN: EJ14-0170**

This permit affects property identified as Town Tax Parcel ID 00017-3015 referenced in a deed recorded in Book 33 Page(s) 97 of the Land Records in Charlotte, Vermont.

This project, consisting of the subdivision of a 30.5 acre lot into a 5.5 acre lot with an existing single-family residence, a 10.3 acre lot and a 6.8 acre lot and a boundary adjustment resulting in the addition of 7.4 acres to a neighboring property, located on Guinea Road in Charlotte, Vermont, is hereby approved under the requirements of the regulations named above subject to the following conditions.

**1. GENERAL**

- 1.1 The project shall be completed as shown on the plans and/or documents prepared by Jeffrey Keeney of High Knob Design Associates LLC, with the stamped plans listed as follows:

Sheet Number	Title	Plan Date	Plan Revision Date
1 of 3	Site Plan	3/19/14	04/08/14
2 of 3	Water / Wastewater Plan	3/19/14	3/31/14
3 of 3	Details	2/19/14	/ /

- 1.2 This permit does not relieve the landowner from obtaining all other approvals and permits PRIOR to construction including, but not limited to, those that may be required from the Act 250 Environmental Commission; the Drinking Water and Groundwater Protection Division; the Watershed Management Division; the Division of Fire Safety; the Vermont Department of Health; the Family Services Division; or other State departments and local officials.
- 1.3 The conditions of this permit shall run with the land and will be binding upon and enforceable against the landowner and all assigns and successors in interest. The landowner shall record and index this permit in the Charlotte Land Records within thirty, (30) days of issuance of this permit and prior to the conveyance of any lot subject to the jurisdiction of this permit.
- 1.4 The landowner shall record and index all required installation certifications and other documents that are required to be filed under these Rules or under a specific permit condition in the Land Records and ensure that copies of all certifications are sent to the Secretary.
- 1.5 No permit issued by the Secretary shall be valid for a substantially completed potable water supply and wastewater system until the Secretary receives a signed and dated certification from a qualified Vermont Licensed Designer (or where allowed, the installer) that states:

*"I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the potable water supply and wastewater system were installed in accordance with the permitted design and all the permit conditions, were inspected, were properly tested, and have successfully met those performance tests",*



or which otherwise satisfies the requirements of §1-308 and §1-911 of the referenced rules.

- 1.6 This project Lot 1 is approved with the existing 4-bedroom septic system currently serving a 2-bedroom single-family residence. No alterations to the existing building other than those indicated in this permit that would change or affect the water supply or wastewater disposal shall be allowed without prior approval by the Drinking Water and Groundwater Protection Division. Construction of additional nonexempt buildings including commercial and residential buildings is not allowed without prior permitting by the Drinking Water and Groundwater Protection Division and such permit may not be granted unless the proposal conforms to the applicable laws and regulations.
- 1.7 Lots 2 and 3 are each approved for the construction of a 5-bedroom single-family residence. Construction of additional nonexempt buildings, including commercial and residential buildings, is not allowed without prior review and approval by the Drinking Water and Groundwater Protection Division and such approval will not be granted unless the proposal conforms to the applicable laws and regulations. No construction is allowed that will cause non-compliance with an existing permit.
- 1.8 Each purchaser of any portion of the project shall be shown a copy of the Wastewater System and Potable Water Supply Permit and the stamped plan(s), if applicable, prior to conveyance of any portion of the project to that purchaser.
- 1.9 By acceptance of this permit, the landowner agrees to allow representatives of the State of Vermont access to the property covered by the permit, at reasonable times, for the purpose of ascertaining compliance with the Vermont environmental and health statutes and regulations, and permit conditions.
- 1.10 Any person aggrieved by this permit may appeal to the Environmental Court within 30 days of the date of issuance of this permit in accordance with 10 V.S.A. Chapter 220 and the Vermont Rules of Environmental Court Proceedings.

## **2. WATER SUPPLY**

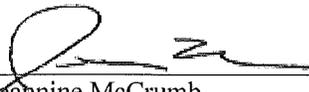
- 2.1 This project Lot 1 is approved for a potable water supply using a shallow well for a maximum of 420 gallons of water per day.
- 2.2 Lots 2 and 3 are each approved for a potable water supply using a drilled bedrock well for a maximum of 560 gallons of water per day provided the supply is located as shown on the stamped plan(s) and meets or exceeds the isolation distances, construction standards, and water quality standards required in the Water Supply Rule.
- 2.3 The landowner shall operate the potable water supply in a manner that keeps the supply free from contamination. The landowner shall immediately notify the Division if the water supply system fails to function properly and becomes a "failed supply".
- 2.4 The components of the potable water supply herein approved shall be routinely and reliably inspected during construction by a qualified Vermont Licensed Designer (or where allowed, the installer) who shall, upon completion and prior to occupancy of the associated building, report in writing to the Drinking Water and Groundwater Protection Division that the installation was accomplished in accordance with the referenced plans and permit conditions, as specifically directed in Condition #1.5 herein.
- 2.5 The water source location as shown on the stamped plan(s) shall be staked out and flagged by a qualified Vermont Licensed Designer prior to any construction on this project with the flagging being maintained until construction is complete.
- 2.6 Prior to constructing the potable water supply, other than drilling of the well, the landowner shall obtain an amended permit or approval letter from the Drinking Water and Groundwater Protection Division. The landowner shall submit plans prepared by a qualified Vermont Licensed Designer for a water distribution system, including sizing calculations, specifications for pumps, hydropneumatic tanks, and storage facilities, to the Drinking Water and Groundwater Protection Division for approval.

## **3. WASTEWATER DISPOSAL**

- 3.1 Lot 1 is approved for the disposal of wastewater in accordance with the design depicted on the stamped plan(s) for a maximum of 420 gallons of wastewater per day. A future replacement wastewater disposal area has been identified on the stamped plan(s). There shall be no construction or other activities that would impact the suitability of this replacement area for wastewater disposal.
- 3.2 Lot 2 is approved for the disposal of wastewater via an in-ground system as depicted on the stamped plan(s) for a maximum of 560 gallons of wastewater per day. A future replacement wastewater disposal area has been

- identified on the stamped plan(s). There shall be no construction or other activities that would impact the suitability of this replacement area for wastewater disposal.
- 3.3 Lot 3 is approved for the disposal of wastewater via an innovative / alternative system as depicted on the stamped plan(s) for a maximum of 560 gallons of wastewater per day. This system is subject to additional requirements as outlined in the attached document entitled "Innovative/Alternative System Approval".
  - 3.4 Each purchaser of any portion of the project shall be shown copies of the Wastewater System and Potable Water Supply Permit, the stamped plans, and Innovative/Alternative System Approval letter #2004-02 R1.
  - 3.5 The components of the sanitary wastewater system herein approved shall be routinely and reliably inspected during construction by a Vermont Licensed Designer (or where allowed, the installer) who shall, upon completion and prior to occupancy of the associated building, report in writing to the Drinking Water and Groundwater Protection Division that the installation was accomplished in accordance with the referenced plans and permit conditions, as specifically directed in Condition #1.5 herein.
  - 3.6 The corners of the proposed primary or replacement wastewater disposal area(s) shall be accurately staked out and flagged prior to construction with the flagging/staking being maintained until construction is complete.
  - 3.7 The wastewater system for this project is approved for domestic type wastewater only except as allowed for water treatment discharges. No discharge of other type process wastewater is permitted unless prior written approval is obtained from the Drinking Water and Groundwater Protection Division.
  - 3.8 No buildings, roads, water lines, earthwork, re-grading, excavation or other construction that might interfere with the installation or operation of the wastewater disposal systems are allowed on or near the site-specific wastewater disposal system or replacement area depicted on the stamped plans. All isolation distances that are set forth in the Wastewater System and Potable Water Supply Rules shall be adhered to and will be incorporated into the construction and installation of the wastewater disposal field.

David K. Mears, Commissioner  
Department of Environmental Conservation

By   
Jeannine McCrumb  
Sewage Officer  
Town of Charlotte

Dated the 27<sup>th</sup> Day of May, 2014.

- c Spencer Harris, Charlotte Septic Consultant *via email*  
Jeffrey Keeney, High Knob Design Associates LLC *via email*  
Rod Dike, landowner *via email*  
Jeff Small, landowner agent  
Drinking Water and Groundwater Protection Division *via email*



State of Vermont  
Department of Environmental Conservation  
Drinking Water & Groundwater Protection Division  
1 National Life Drive – Main 2  
Montpelier VT 05620-3521  
[www.anr.state.vt.us/dec/ww/wwmd.cfm](http://www.anr.state.vt.us/dec/ww/wwmd.cfm)

[phone] 802-585-4911  
[fax] 802-828-1541

Agency of Natural Resources

**Innovative/Alternative System Approval**  
General Use per §1-1001 of the  
Wastewater System and Potable Water Supply Rules, September 29, 2007

Approval Number 2004-02-R1  
Approval Date November 21, 2013

**Vendor Information**

Presby Environmental, Inc.  
143 Airport Road  
Whitefield, NH 03598

**Technology Name**

Advanced Enviro-Septic® and  
Enviro-Septic® Leaching System

**Contact**

David W. Presby, President  
Presby Environmental, Inc.  
143 Airport Road  
Whitefield, NH 03598  
Phone (800) 473-5298  
Fax (603) 837-9864  
Web: [www.PresbyEnvironmental.com](http://www.PresbyEnvironmental.com)

**Technology Type**

Septic Tank Effluent Treatment &  
Distribution System

**Expiration Date**

March 1, 2015

**Approval**

The Enviro-Septic® Leaching System may be used as part of a subsurface wastewater disposal system approved under the Wastewater System and Potable Water Supply Rules, effective September 29, 2007 (Rules) under the following conditions:

1. The leaching systems must be designed, installed and operated as described in the Vermont Design and Installation Manual, dated October 2013, filed with the Agency of Natural Resources (Agency).
2. This approval is based on treatment only of domestic wastewater of low and moderate strength as specified in §1-915(a)(1)(C) & (D) of the Rules. An Enviro-Septic® Leaching System shall not be used as a filtrate effluent disposal system unless the system incorporates pressure distribution of the filtrate effluent.
3. The system may be used for both new and replacement systems.



4. If the Rules are revised during the term of this approval, this approval shall be revised as needed to conform to the revisions.
5. The Designer shall provide a copy of this approval letter to any landowner who is a prospective purchaser of an Enviro-Septic® Leaching System prior to the sale of the system and prior to the filing of any application for a site-specific approval by the Agency for the purchaser's property. The application filed with the Agency shall include the landowner's written acknowledgement of this approval letter. Prior to any sale of the property or completion of a sales agreement to sell the property, a copy of the site-specific permit shall be provided to the prospective purchaser.
6. The vendor shall submit an annual report to the Agency by April 1 of each year containing the following information for the 12 month period ending December 31 of the previous year:
  - A. The number of permitted systems installed in Vermont.
  - B. The address of each installation.
  - C. The name of the owner at the time of installation and any known change in ownership.
  - D. All known problems or failures, with a brief summary of the cause and remedial measures taken.
7. When a project is subject to the Rules, site-specific permission for the use of this product is required in the form of a Wastewater System – Potable Water Supply Permit.
8. A site-specific permit for the use of this product may be revoked if the system fails to function properly. Revocation of the permit will require that the use of the building be discontinued unless another wastewater disposal system is installed based on prior written approval by the Agency.
9. This approval is not a representation or guarantee of the effectiveness, efficiency or operation of an Enviro-Septic® Leaching System.
10. This approval allows for continued use of the original Enviro-Septic Pipe in accord with the above referenced design manual.

#### **Design and Review Conditions**

The following conditions will be used by the Department in reviewing permit applications that include an Advanced Enviro-Septic® Leaching System:

#### **Equipment**

- Advanced Enviro-Septic® Leaching System

## Design and Application

- The leaching system shall be designed in accordance with the approved Vermont Design and Installation Manual dated October 2013.
- The designer shall assure that the system will properly function in all seasons.
- The designer must assess the ventilation path for the particular application and make any necessary provisions to assure proper flow and control of odor emissions.
- The designer shall include in the design a septic tank effluent filter with easy access for inspection and cleaning.

## Installation Inspection

- The leaching system shall be installed accordance with the approved plans and under the instruction and guidance of an installer/inspector trained by the manufacturer.
- The leaching system shall be inspected by a Licensed Class 1 Designer or a Licensed Class B Designer, approved by the Vendor, during installation of the system and installation of any tanks before backfilling, and after backfilling and grading is complete. The inspection shall include checking for levelness of the pipes, and inspecting for damage and proper assembly.
- The Designer shall inspect all transport piping for proper installation and watertightness before backfilling.

## Permitting

- The permit shall run with the land.
- A copy of the permit shall be provided to any prospective purchaser prior to the sale.
- Each new owner of the property shall inform the appropriate Regional Environmental Office of the Agency within 30 days of the transfer of the property and include the name and mailing address of the new owner.

Effective Date: November 21, 2013

by   
Ernest Christianson  
Regional Office Program Manager





Vermont Department of Environmental Conservation  
Drinking Water and Groundwater Protection Division

## Notice to Owners of Innovative and Alternative (IA) Wastewater Treatment Systems

The State of Vermont Drinking Water and Groundwater Protection Division allows the use of Innovative/Alternative (IA) wastewater treatment systems. IA systems are used to: assist in overcoming site limitations that would otherwise not allow for the construction of a wastewater system on the property, to reduce the wastewater strength prior to disposal, or to decrease the size of a wastewater system. As a landowner you should be aware of the required conditions in your Wastewater System and Potable Water Supply Permit. The conditions were deemed necessary to ensure that all persons using or affected by the alternative system or product will be protected from health hazards associated with the use of the system or product.

Q. - Am I actually required to keep a maintenance contract?

Yes. Approved systems have specific permit conditions associated with installation and operation that requires landowners to retain a maintenance contract with a professionally trained and approved service provider. A list of approved Service Providers can be found at:

<http://drinkingwater.vt.gov/innovativealternative/pdf/serviceprovidercontacts.pdf>

Q. - My System is working fine, why can't I just call a service provider when I notice a problem?

Proactive maintenance and servicing will ensure that the System is working as intended and avoid repairs or replacement at a major cost to the homeowner. IA systems need servicing just as much as your heating system or your vehicle; without these procedures your system may not run its intended lifetime. Routine servicing can detect problems that you might not even be aware of before major repairs are needed.

Q. - What should my service provider be doing if I have a maintenance contract?

Maintenance activities varies by system type and site conditions, but at the very least your service provider should: perform annual or more frequent inspection if required, evaluate the site and surrounding landscape for possible problems, and measure tank solid levels to assess if pumping is needed. Depending on the type of system, the service provider may need to: clean or replace the filters, clean pumps, screens, motors and or floats, and advise you on appropriate use and preventative maintenance of the system (i.e. spread the loads of laundry throughout the week).

Q. - It's my system, my property, and my drinking water. Why does the State of Vermont care if my system fails?



When an onsite wastewater system fails, it's not just the homeowner who is affected. Improperly treated wastewater contains bacteria, viruses and other pollutants. A failed system can result in untreated wastewater: surfacing, leaching into groundwater that we drink, or it can run off into surface waters. This is a health hazard for the general public and is especially dangerous for children and the elderly and anyone with a compromised immune system.

Q. - How can I justify the expense?

IA Systems are more complicated than traditional in-ground systems and may have alarms, filters, pumps, blowers, spray heads, nozzles, floats, tanks, or media. Periodic cleaning, inspection, replacement of components and adjustment keeps the system running properly. Ongoing maintenance may help identify problems that can be fixed before they impact the leachfield. Once damage occurs, repairing or replacing the leachfield or treatment unit can cost thousands to tens of thousands of dollars.

Q. - What happens if I do not comply with my permit conditions?

If a system owner is in violation of their permit, the future sale of a property or a request for a permit amendment may be delayed or negatively impacted. A site-specific permit for the use of an IA product may be revoked if the property owner fails to have a valid maintenance contract or if the unit fails to function properly.

Q. - What requirements should I be aware of?

Depending on the complexity of your system, annual or semi-annual inspections must be performed by your contracted service provider or licensed designer. You should check the conditions of the IA approval letter. Inspection reports must be submitted to the State of Vermont Department of Environmental Conservation. Check with your service provider to see if they provide a reporting service.

Q. - What if I am not happy with my Service Provider?

The State of Vermont requires IA service providers to be approved and trained by the Vendor. If the service provider is not meeting the conditions in your contract, not responding to emergency calls or you are unsatisfied for any other reason the vendor should be made aware of your concerns. A list of Vendor contacts can be found at: <http://drinkingwater.vt.gov/wastewaterdisinnovativelist.htm>

If you are unsatisfied with the Vendor's response to your concerns you may contact:

**Mary Clark, Environmental Analyst**  
Department of Environmental Conservation  
Drinking Water and Groundwater Protection Division  
[phone] 802-585-4890  
[email] [mary.clark@state.vt.us](mailto:mary.clark@state.vt.us)

Q. - Where can I find my permit?

If you were the permit applicant, you would have received a copy of the Permit and IA Approval at the time of approval. If you purchased a property with an existing IA System, you should have received a copy of the permit and IA Approval at the time of closing. If you cannot locate your permit, you may use the on-line permit document search tool [septic.vt.gov/cfm/wwwdocs/index.cfm](http://septic.vt.gov/cfm/wwwdocs/index.cfm) (permit document search) or contact the appropriate Regional Office for assistance at [septic.vt.gov](http://septic.vt.gov) (program information). There are some installations that may have been exempt from needing a state permit. There may be records on these systems located in the town clerk's office.

Q. - Who do I contact if I have compliance questions?

**Christina Russo, Compliance Officer**  
Department of Environmental Conservation  
Drinking Water and Groundwater Protection Division  
[phone] 802-585-4885  
[email] [chris.russo@state.vt.us](mailto:chris.russo@state.vt.us)