



State of Vermont
Department of Environmental Conservation
Drinking Water and Groundwater Protection Division
Essex Regional Office
111 West Street
Essex Junction, VT 05452-4695
www.septic.vt.gov

Agency of Natural Resources
[phone] 802-879-5656
[fax] 802-879-3871

January 15, 2014

Gregg & Elizabeth Beldock
900 Plouffe Farm Lane
Charlotte, VT 05455

Dear Applicant:

Subject: Wastewater System and Potable Water Supply Permit WW-138-1321 for a project located in Charlotte, Vermont.

Enclosed you will find:

1. The WW/WS Permit document marked "Documents For Recording".
2. The corresponding plans referenced in the permit for your records.

Please read your permit thoroughly and be sure you understand all the requirements. **Be aware that failure to submit any permit-required installation certifications will render your permit invalid and will cause problems during any future title searches done on this property.**

You are required to file this permit with the Charlotte town clerk within 30 days of issuance of the permit. Please take the document stamped "Documents For Recording" to your town clerk. You will be required to pay a recording fee to your town clerk at that time. Failure to file the permit with your town clerk will cause problems during any future title searches done on this property.

You may either contact your consultant for additional copies of the approved plans or you may obtain a copy of them, when they become available on the internet, by accessing our website at www.charlottevt.org. Thank you for your cooperation. If you have any questions, please contact me at jeannine@townofcharlotte.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeannine McCrumb".

Jeannine McCrumb
Sewage Officer
Town of Charlotte

Enclosures



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): Gregg & Elizabeth Beldock**Permit Number: WW-138-1321**
PIN: EJ14-0002

This permit affects property identified as Town Tax Parcel ID # 00113-0900 referenced in a deed recorded in Book 197 Page 421 of the Land Records in Charlotte, Vermont.

This project, consisting of the subdividing a 22.6-acre parcel, served by on-site water supply and wastewater disposal systems located on Spear Street 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 Lamoureux & Dickinson Consulting Engineers, Inc. with the stamped plans listed as follows:

Sheet Number	Title	Plan Date	Plan Revision Date
1 of 4	S1 – Two-Lot Subdivision Water Supply and Wastewater System Design	12/2/2013	/ /
2 of 4	D1 – Lot 1 Wastewater System Plan, Details, and Specifications	12/2/2013	/ /
3 of 4	D2 - Lot 2 Wastewater System Plan, Details, and Specifications	12/2/2013	/ /
4 of 4	D3- Lot 1 Wastewater Pretreatment Unit	12/2/2013	/ /

- 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 District 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; other State departments; or 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 Charlotte Land Records and ensure that copies of all certifications are sent to the Secretary.

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- 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 is approved for the construction of a 4BR single-family residence on Lot 1 and a 4BR single-family residence on Lot 2. 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.
- 1.7 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.
- 1.8 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 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.
- 2.2 Lot 1 is approved for a potable water supply using a drilled or percussion bedrock well for a maximum of 490 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. 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".
- 2.3 The water supply system for Lot 1 is subject to an easement onto the lands identified as Lot 2. The ownership of this project, or portion thereof, shall not be transferred without water rights to the approved water supply. The water rights shall provide for an uninterrupted supply of water together with the right to enter upon the property for the construction, repair, maintenance and other such reasonable purposes as may arise regarding the potable water supply. No construction on or conveyance of the approved lot(s)/project is allowed until such time as a copy of the executed easement has been recorded in the Charlotte land records. Failure to properly execute the easement renders this permit null and void for any lot/the project conveyed without the proper easement. It is recommended that a copy of the executed easement be sent to the Drinking Water and Groundwater Protection Division.
- 2.4 Lot 2 is approved for a potable water supply using a drilled or percussion bedrock well for a maximum of 490 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. 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".
- 2.5 The water source locations as shown on the stamped plan(s) shall be accurately staked out and flagged 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,

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including sizing calculations, specifications for pumps, hydropneumatic tanks, and storage facilities, to the Drinking Water and Groundwater Protection Division for approval.

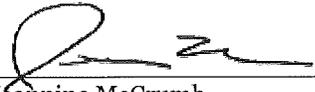
3. WASTEWATER DISPOSAL

- 3.1 This project is approved for the disposal of wastewater in accordance with the design depicted on the stamped plan(s) for a maximum of 980 gallons of wastewater per day (2x490 GPD). The system(s) shall be operated at all times in a manner that will not permit the discharge of effluent onto the surface of the ground or into the waters of the State. Should the system fail and not qualify for the minor repair or replacement exemption, the current landowner shall engage a qualified Vermont Licensed Designer to evaluate the cause of the failure and to submit an application to this office and receive written approval prior to correcting the failure.
- 3.2 The components of the sanitary wastewater system 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.
- 3.3 Lot 1 is approved for the installation of a filtrate disposal system utilizing a Norweco Singulair Green 960-500 pretreatment system.
- a. A user's manual for the Innovative/Alternative treatment system shall be developed and provided by the system designer at the time the system "as built" drawings are completed and submitted to the owner.
 - b. A qualified Vermont Licensed Designer, shall, upon completion and prior to placing the system in use, report in writing to the Division that the installation was accomplished in accordance with the Innovative/Alternative System Approval Letter, stamped plans and permit conditions. The Drinking Water and Groundwater Protection Division is to be notified if at any time the wastewater disposal system fails to function properly and/or creates a health hazard.
 - c. A qualified Vermont Licensed Designer shall perform all periodic inspections of the Innovative/Alternative treatment system pursuant to the requirements as outlined in the Innovative/Alternative System Approval Letter. A written report of the inspection shall be submitted to the Division within 30 days of the inspection.
 - d. The wastewater system serving the approved lot(s) is an Innovative/Alternative System and there are special requirements that apply. Please refer to the attached document titled Innovative/Alternative System Approval for the additional requirements that apply.
 - e. Each purchaser of Lot 1 shall be shown copies of the Wastewater System and Potable Water Supply Permit, the stamped plans, and Innovative/Alternative System Approval letter #2005-01 (2012 Renewal, expires 12/1/2014) for the Norweco Singulair® System (Lot 1 only) prior to conveyance of the lot. The owner of a property where an Innovative/Alternative System has been installed shall comply with all the conditions in the Innovative/Alternative Approval letter that is incorporated within this permit including a maintenance agreement for the system.
 - f. Each new owner of the property shall inform the Drinking Water and Groundwater Protection Division and vendor within 30 days of the transfer of the property and include the name and mailing address of the new owner.
- 3.4 The wastewater disposal system for Lot 2 is designed using the performance based approach. The use of a performance-based wastewater disposal system approved in this permit requires that an annual inspection be performed by a qualified Vermont Licensed Designer starting when the system is placed in use and continuing for the first three years of operation. The field inspection shall be done in April or May and a written report shall be submitted by the June 15th of each year to the landowner and the Drinking Water and Groundwater Protection Division. The inspection shall consist of a field inspection of the wastewater disposal system and the area within 25' of the system in all directions noting any indication of failure.
- 3.5 The wastewater disposal system which is to serve Lot 2 is located on the Holmes parcel (Parcel ID 0002-0283). The land deeds that establish and transfer ownership of these parcels shall contain a legal easement which grants the purchaser(s) and any future owner(s) the right to enter upon the property for the construction, repair,

maintenance and other such reasonable purposes as may arise regarding the wastewater disposal system. Failure to properly execute the easement renders this permit null and void for any lot/the project conveyed without the proper easement. It is recommended that a copy of the executed easement be sent to the Drinking Water and Groundwater Protection Division.

- 3.6 The corners of the proposed primary 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 

Jehanine McCrumb
Sewage Officer
Town of Charlotte

Dated the 15th day of January, 2014.

- c Spencer Harris, Charlotte Septic Consultant *via email*
Brian Tremback, Lamoureux & Dickinson Consulting Engineers, Inc. *via email*
Gregg & Elizabeth Beldock, landowner
Drinking Water and Groundwater Protection Division *via email*

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State of Vermont
Department of Environmental Conservation
Drinking Water & Groundwater Protection Division
1 National Life Drive, Main 2
Montpelier, Vermont 05620-3521

Agency of Natural Resources

www.anr.state.vt.us/dec/ww/wwmd.cfm

Innovative/Alternative System Approval

General Use per §1-1001 of the
Wastewater System and Potable Water Supply Rules, effective September 29, 2007

NORWECO SINGULAIR® Model 960 SERIES

2012 Renewal
2005 Original Approval
Approval Number 2005-01

Vendor Information

Norweco, Inc.
220 Republic Street
Norwalk, OH 44857-1196

Technology Name

Singulair® Model 960 Series
Wastewater Treatment System

Contact

Robin Cassidy
Customer Service Manager
Norweco, Inc.
220 Republic Street
Norwalk, OH 44857-1156
Phone (419)-668-4471
Fax (419) 663-5440
Email: rcassidy@norweco.com
Web: www.norweco.com

Technology Type

Suspended Growth Extended
Aeration

Expiration Date

December 1, 2014

Approval

The Norweco Singulair® Models 960-500, 960-750, 960-1000, 960-1250 and 960-1500, and the Singulair® Green 960-500 systems in the 500 GPD and 600 GPD capacities, and the Singulair® Green TNT-500 systems in the 500 GPD and 600 GPD capacities may be used as part of a subsurface wastewater disposal system approved under the Wastewater

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Norweco Singulair® Model 960 Series 2012 Renewal

System and Potable Water Supply Rules, effective September 29, 2007 (Rules), under the following conditions:

1. The treatment units must be installed and operated as described in the Innovative/Alternative System application package filed with the Agency of Natural Resources (Agency) on March 4, 2002, and with the site-specific installation and operation instructions submitted, or with the updated application package for the Singulair® Green systems submitted October 26, 2010.
2. Unit sizing must be in accord with the technical information submitted with the Innovative/Alternative application package on March 4, 2002, or for the Singulair® Green systems in accord with the material submitted on October 25, 2010. The sizing shall be based on the calculated design flow per §1-808 of the Rules.
3. 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.
4. The system may be used for both new and replacement systems.
5. All effluent from a Norweco Singulair® System shall be discharged to a filtrate disposal system that conforms to the requirements of §1-916 of the Rules. If the Rules are revised during the term of this approval, this approval may be revised as needed to conform to the revisions.
6. Detailed operating instruction shall be provided in writing to the owner/operator.
7. The Vendor (*aka* Manufacturer) shall have an inventory of replacement parts available locally or available for delivery within 24 hours.
8. The Designer shall provide a copy of this approval letter to any landowner who is a prospective purchaser of a Norweco Singulair® System prior to the sale of the unit and prior to the filing of any application for a site-specific approval by the Agency for the landowner'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. The owner of record shall notify the Vendor of the sale, and provide contact information for the new owner.
9. The owner of a property where a Norweco Singulair® System has been installed shall have a valid maintenance contract in force at all times. The minimum length of any contract shall be for a period of two years. A copy of the initial and each succeeding contract shall be submitted to the appropriate Regional Environmental Office of the Agency and the Vendor. Maintenance shall be performed or supervised by a Licensed Class 1 Designer or a Licensed Class B Designer,

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approved by the Vendor, who shall provide written inspection reports detailing the maintenance performed on the specific system, including measurements of sludge and scum levels and any pumping required; any problems that have occurred since the previous inspection; any modifications made to the system; the date of the inspection; and any work required to ensure the system operates in compliance with this approval. The annual inspection reports shall be provided electronically to the Agency's Central Office (Attention Innovative/Alternative Program Manager) and the Regional Office that issued the Wastewater System and Potable Water Supply Permit.

The inspection shall be performed in accordance with the manufacturer's Operation and Maintenance Manual submitted as part of the Innovative/Alternative System application package. If at any inspection the effluent is cloudy or pungent smelling a sample shall be collected and tested for BOD₅ and TSS. The results of any testing shall be submitted with the annual inspection report.

10. The first inspection shall be completed no later than 6 months after placing the system in service. The second inspection shall be completed no later than 12 months after placing the system in service. Subsequent inspections shall be completed at least once per year based on the date when the system was first placed in service. More frequent inspections or additional testing, required by the manufacturer to ensure proper functioning of the system, shall be conducted in accordance with the manufacturer's specifications. All reports shall be filed with the Agency's Central Office (Attention Innovative/Alternative Program Manager), the appropriate Regional Environmental Office of the Agency, the Vendor, and the landowner.
11. This approval is based on information submitted by the Vendor indicating that the specified models and treatment modes will routinely provide effluent with no more than 30 mg/l of BOD₅ and no more than 30 mg/l of TSS.
12. When the project is subject to the Rules, site specific permission for the use of this product is required in the form of a Wastewater System and Potable Water Supply Permit.
13. A site-specific permit for the use of this system may be revoked if the system fails to function properly or if the property owner fails to have a valid contract for the required maintenance and inspection of the system. 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.
14. This approval is not a representation or guarantee of the effectiveness, efficiency or operation of a Norweco Singulair® System.

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Norweco Singulair® Model 960 Series 2012 Renewal

15. For commercial wastewater applications, the Manufacturer (Vendor) shall provide a letter to the Designer, Owner, and the Agency's Central Office and the appropriate Regional Office, certifying the use of this technology for the proposed application and site.

Vendor Requirements

1. The Vendor (*aka* Manufacturer) shall have an inventory of replacement parts available locally.
2. The Vendor (*aka* Manufacturer) shall submit an annual report electronically to both the Central Office (Attention Innovative/Alternative Program Manager) and Regional Offices of 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. New permitted systems installed in Vermont during the previous calendar year shall include:
 1. Assigned Wastewater Permit Number;
 2. Name of Current Landowner;
 3. Address of Current Landowner;
 4. Name of Designer Providing the Installation Certification;
 5. Name of Installer.
 - b. Existing Systems with known change in ownership shall include name and mailing address of the current landowner and the Wastewater System and Potable Water Supply Permit Number.
 - c. Each annual report shall include all known system problems, damages and/ or failures including:
 1. Description of Issues;
 2. Potential/Known Causes of Problems;
 3. System Operability;
 4. Recommended Repair/Remediation;
 5. Date(s) of Repair/Remediation;
 6. Effectiveness.

Note: Repairs that are not defined by Rule as "minor repair" require approval by the Division prior to making the repair.

- d. Names of Designers and Installers Trained by the Vendor and/or the Vendor's representative.
- e. The Vendor shall provide the Central Office of the Agency with the names of the VT distributor and the VT maintenance provider within 30 days of this approval and within 30 days of termination and/or hiring a new firm during the term of this approval.

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Norweco Singulair® Model 960 Series 2012 Renewal

Design and Review Conditions

The following conditions will be used by the Department in reviewing permit applications that include a Norweco Singulair® System:

Equipment

- Norweco Singulair® Models 960-500, 960-750, 960-1000, 960-1250 and 960-1500
- Singulair® Green 960-500 (500 GPD or 600 GPD)
- Singulair® Green TNT-500 (500 GPD or 600 GPD)

Design and Application

- The treatment unit shall be designed by a Licensed Class 1 Designer or a Licensed Class B Designer in accordance with the Rules and the manufacturer's recommendations. The designer shall assure that the system will properly function in all seasons.
- The designer must assess the structural needs of the unit for the specific application site and place the requirements on the design plans.
- The designer must determine the type of backfill required and any necessary placement specification.
- 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 must assure routine access to the unit.
- The designer must address flotation issues if the seasonal high water table will be above the bottom of any of the tanks.
- The designer shall include in the design a septic tank effluent filter with easy access for inspection and cleaning.
- The designer and owner must assure routine access to the unit as well as the septic tank effluent filter.

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Installation Inspection

- The treatment unit shall be set up under the instruction and guidance of an installer/inspector trained by the Vendor (*aka* manufacturer).
- The treatment unit shall be inspected by a Licensed Class 1 Designer or a Licensed Class B Designer, approved by the Vendor, after construction of the unit and installation of the tanks before backfilling, and after backfilling and grading is complete. The inspection shall include checking for an adequate structural foundation to support the unit, checking for levelness of the tanks, and inspecting for damage and proper assembly.
- Before backfilling, the unit and tankage shall be tested for watertightness by filling the unit or tank with water to a point above all below grade openings and holding it at a constant level for 24 hours; there shall be no measurable leakage. During the test the entire unit and tanks shall be inspected for visible leaks. Should the unit or tanks fail the test they may be repaired and retested. The testing and repairs shall be conducted under the direction and in the presence of the inspecting Licensed Class 1 Designer or Licensed Class B Designer.
- The Licensed Class 1 Designer or Licensed Class B Designer shall inspect all piping for proper installation and watertightness before backfilling.
- The Licensed Class 1 Designer or Licensed Class B Designer, approved by the Vendor to conduct the inspections, shall provide a letter certifying that the system is correctly installed as well as the results of watertightness testing. This letter shall be submitted electronically to the Vendor and both the Central (Innovative/Alternative Program Manager) and pertinent Regional offices of the Agency.

Start-up

- Start-up of the system and initial operational checks shall be conducted by an installer/inspector trained by the Vendor (*aka* manufacturer), who shall submit a report to the owner, and to the inspecting Licensed Class 1 Designer or Licensed Class B Designer indicating any problems encountered, their resolution, and affirmation that the system is operating as intended. A copy of the startup report shall be submitted electronically to the Agency's Central Office.

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Operational Maintenance and Inspection

- The owner shall have a valid maintenance contract in force at all times. The minimum length of any contract shall be for a period of two years. A copy of the initial and each succeeding contract shall be submitted to the appropriate Regional Environmental Office of the Agency. Maintenance shall be performed by, or shall be supervised by, a Licensed Class 1 Designer or a Licensed Class B Designer, approved by the Vendor, who shall provide written inspection reports detailing the maintenance performed on the specific system, any problems that have occurred since the previous inspection, any modifications made to the system, the date of the inspection, and any work required to ensure the system operates in compliance with this approval.

The inspection shall be performed in accord with the Vendor's (*manufacturer*) Operation and Maintenance Manual submitted as part of the Innovative/Alternative System application package. If at any inspection the effluent is cloudy or pungent smelling a sample shall be collected and tested for BOD₅ and TSS. The results of any testing shall be submitted with the annual inspection report.

- The first inspection shall be completed no later than 6 months after placing the system in service.
- The second inspection shall be completed no later than 12 months after placing the system in service.
- Subsequent inspections shall be completed at least once per year based on the date when the system was first placed in service. More frequent inspections or additional testing, required by the manufacturer to ensure proper functioning of the system, shall be conducted in accordance with the manufacturer's specifications.
- All reports shall be filed with the Central Office and the appropriate Regional Environmental Office of the Agency, the Vendor and the landowner with the annual inspection report.

Permitting

- The permit shall run with the land.
- A copy of the permit shall be provided to any prospective buyers prior to the sale.

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- 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 December 1, 2012

By



Ernest Christianson
Engineering Manager

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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

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 (permit document search) or contact the appropriate Regional Office for assistance at 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