

Appeal Period Expires <u>9/11/13</u> Zoning District <u>RR</u>	Town of Essex, Vermont Application for Zoning Permit www.essex.org	Application Date <u>1/1/13</u> Permit Number <u>2013-136</u>
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All construction is to be completed in accordance with the Town of Essex Zoning Regulations and any/all federal or state regulations now in effect. You are required to post this permit in a conspicuous location on the property during the appeal period and it must remain posted throughout the construction period. **You are required to contact the necessary state agencies to obtain state permits @ 879-5676.**

Any interested person may appeal the decision of the Zoning Administrator to the Zoning Board of Adjustment within fifteen (15) days of the permit's date of issuance. Commencing construction within this fifteen (15) day appeal period is prohibited by law.

Signed: [Signature]

<p>A. Parcel Account Numb. (Map-Parcel-Lot) <u>2-073-001-019</u> <small>(found in Town Assessor's Office)</small> Property Address: <u>43 DISCOVERY BOULEVARD</u> Owner: <u>Laura J. Hersh + Franklin A. Cate II</u> Owner Address: <u>208 Jackson St</u> Owner Phone: (work) _____ (home) _____ * (cell) <u>879-999-3583</u> (Email) <u>laura.hersh@gmail.com</u> Contractors name: <u>Denis B. Boreal</u> Phone _____ Cell: _____ Estimated Construction Dates: Start: <u>8/2/13</u> Completion: <u>12/01/13</u> Sq. Feet: <u>1450</u> Estimated Cost (labor & materials): <u>\$220,000</u></p>	G																								
<p>B. Sewage Disposal (Please attach Sewer or Septic Application) Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> <u>State Permit # WW-4-3634-3</u> Connection Fee \$ _____ Date Paid: <u>1/1/13</u> Proposed New Bedrooms: <u>4</u> Existing Bedrooms: <u>1</u> <u>(in ATE)</u></p>	<p>Check box(es) which describe proposed use or construction (circle choice in parenthesis). N = New A = Addition R = Remodel</p> <p>Residential: <u>Partial finish basement for rec room</u> Single Family <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Two-family (duplex)(other) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Multi-family <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Condominium / Townhouse <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Mobile home <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Inclusions or Additions: Garage (attached) (detached) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Porch (enclosed) (open) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Deck <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pool (in) (above) ground <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Shed <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Barn (residential) (agriculture) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Non-residential: Commercial / Industrial <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stormwater: Stormwater <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Erosion Control <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Other: Change in use <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Miscellaneous <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Renewal <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>																								
<p>C. Water (Please attach Water Service Application). Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> Fee \$ _____ Date Paid: <u>1/1/13</u></p>																									
<p>D. Driveway (Please attach copy of approved Curbcut / Utility Application). Date of approval <u>1/1/13</u> <u>approved by P.W. see file</u></p>																									
<p>E. Stormwater</p> <p><input type="checkbox"/> Project disturbs an area greater than or equal to 1 acre – Erosion Control Permit Required. Attach completed permit application.</p> <p><input type="checkbox"/> Project creates new or expands existing impervious surface greater than or equal to 1/2 acre – Erosion Control Permit and Stormwater Management Permit required. Attach completed permit application.</p>																									
<p>F. Diagram – Show a sketch of project on reverse of this application with property lines, building, and setbacks or attach separate sheet. (Instruction sheet available upon request.)</p> <p><u>To be constructed pursuant to PC APPROVAL # PC# 2013-17 & PC 2013-22</u></p>	<p style="text-align: center;">Office Use Only</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Fees:</th> <th style="text-align: left;">Type</th> <th style="text-align: left;">Amount</th> <th style="text-align: left;">Date Pd</th> </tr> </thead> <tbody> <tr> <td>Permit</td> <td></td> <td>\$550.00</td> <td>8/2/13</td> </tr> <tr> <td>Recreation</td> <td></td> <td>\$625.00</td> <td>8/2/13</td> </tr> <tr> <td>Recording</td> <td></td> <td>\$22.00</td> <td>8/2/13</td> </tr> <tr> <td>Certificate of Occ</td> <td></td> <td>\$75.00</td> <td>8/2/13</td> </tr> <tr> <td>Other</td> <td></td> <td>\$</td> <td>1/1/13</td> </tr> </tbody> </table> <p>Building Permit Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/> Date <u>8/27/13</u> Issued to: <u>Kelsh + CATE</u> Zoning Administrator: <u>Sharon L. Kelly</u> Notes: <u>Energy Code given</u> <u>Erosion control given</u></p> <p>C.O. Required Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	Fees:	Type	Amount	Date Pd	Permit		\$550.00	8/2/13	Recreation		\$625.00	8/2/13	Recording		\$22.00	8/2/13	Certificate of Occ		\$75.00	8/2/13	Other		\$	1/1/13
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<p>G. Signature of Tenant and Signature of Owner <u>[Signature]</u></p>																									

THIS PERMIT VALID FOR TWELVE (12) MONTHS FROM DATE OF ISSUE

D Dana D Greg D Sharon

*Wldg
perm*

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): Laura Kelsh
Franklin Catoe
19 1/2 Grove Street
Essex Jct. VT 05444

Permit Number: WW-4-3634-5
PIN: EJ11-0012

This permit affects property identified as Town Tax Parcel ID # Essex: 2073001019 referenced in a deed recorded in Book 903 Page(s) 508-511 of the Land Records in Essex, Vermont.

This project, consisting of amending Permit # WW-4-3634-4 to change I/A treatment systems from an Advantex Ax20 RT to a Norweco on Lot #19 which is approved for a three bedroom single family residence and a one bedroom apartment, served by on-site water supply and a performance based filtrate wastewater systems using Norweco Singulair® Model 960-500 effluent treatment unit located on 43 Discovery Road in Essex, 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 Paul Beauregard, Licensed Designer Class B with the stamped plans listed as follows:

Sheet Number	Title	Plan Date	Plan Revision Date
1 of 1	Kelsh/Catoe Lost Nation Rd. Lot 19	1/20/2013	12/05/2013

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 Essex 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 Essex 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 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 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 #2005-01-R1 (2014 Renewal, expires 12/1/2014) for the Norweco Singulair® System** prior to conveyance of the lot. The Innovative/Alternative Approval contains special requirements that need to be complied with for the project to remain in compliance with this permit.
- 1.7 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.
- 1.8 All conditions set forth in **Permit Number WW-4-3634-4** shall remain in effect except as amended or modified herein.
- 1.9 This project is approved for the construction of a three bedroom single family residence with a one bedroom apartment on Lot 19. 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.
- 1.10 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.
- 1.11 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 is approved for a potable water supply using a drilled or percussion 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.
- 2.2 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 components of the potable water supply herein approved shall be routinely and reliably inspected during construction by a qualified Vermont Licensed Designer 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.
- 2.4 The water source location 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.
- 2.5 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.
- 2.6 The well pump shall be designed to provide 10 gallons per minute.
- 2.7 Prior to the use of the water system, the landowner shall test the water for total coliform bacteria, arsenic, chloride, iron, manganese, nitrate, nitrite, odor, PH, sodium and uranium content and the water quality analyses shall be found to comply with the standards in the Water Supply Rules. All water quality tests shall be conducted at a laboratory certified by the Vermont Department of Health (a list of which can be found on the VDH website) to conduct the specific tests. Results of the water tests shall be submitted to the Drinking Water and Groundwater Protection Division for review and approval prior to use.

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 **560** gallons of wastewater per day.

- 3.2 The corners of the proposed wastewater area(s) shall be accurately staked out and flagged prior to construction with the flagging/staking being maintained until construction is complete.
- 3.3 The components of the wastewater system herein approved shall be routinely and reliably inspected during construction by a qualified Vermont Licensed Designer 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.
- 3.4 The project is approved for the filtrate mound wastewater disposal systems provided the mound is constructed in strict accordance with the following conditions:
 - a. The mound system is to be located and constructed as depicted on the plans that have been stamped by the Drinking Water and Groundwater Protection Division.
 - b. A qualified Vermont Licensed Designer shall inspect the mound system during critical stages of construction. This shall include the staking of the location of the mound, ensuring the site has been properly plowed prior to placement of the appropriate sand fill, the installation and testing of the distribution piping, final grading of the mound including side slopes, and pump station installation.
 - c. The construction of the mound shall adhere to the guidelines set forth in Section 1-913(f) of the above referenced rules.
- 3.5 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. The landowner shall immediately notify the Division if the wastewater system fails to function properly and becomes a "failed system". 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.
- 3.6 The Operating and Maintenance manual for the Innovative/Alternative treatment unit prepared by the vendor shall be provided to the landowner by the system designer at the time the system start-up.
- 3.7 Following placing the system into use, completion of all periodic inspections shall be pursuant to the conditions and requirements outlined in the Innovative/Alternative System Approval Letter. A written report for each inspection shall be submitted to the Division.
- 3.8 The wastewater system for the project is designed using the performance base approach. The use of the performance-based wastewater system approved in this permit requires that an annual inspection be performed by a Vermont Licensed Designer Class 1 or Class B starting when the system is placed in use and continuing for the first three years of operation. The field inspection shall:
 - a. be performed in April or May;
 - b. submit a written report by June 15th of each year to the landowner and the Drinking Water and Groundwater Protection Division; and
 - c. consist of a field inspection of the wastewater system and the area within 25' of the system in all directions noting any indication of failure.
- 3.9 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.

- 3.10 No buildings, roads, water lines, earthwork, re-grading, excavation or other construction that might interfere with the installation or operation of the wastewater 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 Jessamine Wyman
Jessamine Wyman, Regional Engineer
Essex Regional Office
Drinking Water and Groundwater Protection Division

Dated September 5, 2014

Enclosures: **Innovative/Alternative System Approval letter #2005-01-R1 (2014 Renewal, expires 12/1/2014) for the Norweco Singulair® System**

cc Essex Planning Commission
Paul Beauregard
Innovative/Alternative Manufacturer – Norweco, Inc.
Watershed Management Division
Department of Public Safety, Division of Fire Safety