



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 April 25, 2005

Permit Number: WW-3-1812

PIN: NS10-0124

Landowner: Stephen and Terri Lewis
8 Isabella Drive
Somers CT 06071

This permit affects property identified as Town Tax Parcel ID # Pittsfield: 35-0100-000 and referenced in a deed recorded in Book 58 Page(s) 311-13 of the Land Records in Pittsfield, Vermont.

This project, consisting of the construction of a 3-bedroom single family residence, served by on-site drilled well and wastewater disposal systems located on Hawk Mountain Road & Hawk Trail in Pittsfield, 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 following plan(s) and/or documents that have been stamped by the Wastewater Management Division prepared by Ralph Michael, P.E. listed as follows:
 - A. "Site Plan-...(sheet 1)" 4/19/10
 - B. "Specifications, Details -...(sheet 2)" dated 4/19/10
- 1.2 The project shall not deviate from the stamped plan(s) in a manner that would change or affect the exterior water supply or wastewater disposal systems, building location, or, the approved use of the building, without prior review and written approval from the Wastewater Management Division.
- 1.3 This permit does not relieve the landowner from obtaining all other approvals and permits as may be required from the Act 250 District Environmental Commission, the Department of Environmental Conservation, Water Supply Division – telephone (802) 241-3400, Water Quality Division – telephone (802) 241-3770, the Department Public Safety, Division of Fire Safety– telephone (802) 885-8883, the Department of Health – telephone (802) 863-7221, and local officials **prior** to proceeding with this project.
- 1.4 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 be responsible for the recording of this permit in the Pittsfield 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.
- 1.5 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, including performing an inspection of the wastewater disposal and water systems serving this project.
- 1.6 A copy of the stamped plan(s) and this permit shall remain on the project during all phases of construction, and upon request, shall be made available for inspection by State or local officials.



This certification shall include the wastewater system and the wastewater service line(s) to each structure.

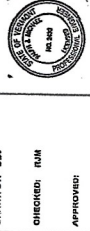
The wastewater system installation certification shall be completed prior to occupancy of the project and the certification shall be submitted to the **Springfield** Regional Office and submitted to the municipality for filing within 30 days of the installation inspection.

- 3.2 The lot is approved for wastewater disposal by construction and utilization of the site-specific wastewater disposal system depicted on the stamped plan(s). The Wastewater Management Division is to be notified, if at any time this system fails to function properly and/or creates a health hazard. The Wastewater Management Division shall allow no other method, or location of wastewater disposal without prior review and approval.
- 3.3 The corners of the proposed wastewater disposal area shall be accurately flagged with the flagging being maintained until construction is complete.
- 3.4 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 (if one is designated) depicted on the stamped plan(s). All isolation distances that are set forth in the Wastewater System and Potable Water Supply Rules will be incorporated into the construction and installation of the wastewater disposal field. Compliance with these isolation distances is required.
- 3.5 Each approved wastewater disposal system has been designed to serve a single-family residence with a maximum of three (3) bedrooms and six (6) occupants. The project is approved for a maximum of 420 gallons of wastewater per day. Prior to any increase in bedrooms and occupants, the landowner shall submit an application, fee, and engineering plans for review and approval by the Wastewater Management Division
- 3.6 The use of the wastewater disposal system approved in this permit requires that an annual inspection be performed by a class 1 or class B designer starting when the system is placed in use. The field inspection shall be done in April or May of each year and a written report shall be submitted to the permittee and the regional office that issued the permit by the following June 15th. The inspection shall consist of a field inspection of the area where the leachfield has been installed. A visual observation of the surface area over the system and the area within 25' of the system in all directions shall be made for any indication of failure. This inspection requirement does not require the installation or observation of groundwater monitors and does not require inspection of other component of the wastewater system such as septic tanks, pump stations or advanced treatment systems. Such inspections may be required if they are part of the approved design, including any operation manuals or written instructions, or if they are required in another permit condition. This condition remains in effect until three inspection cycles have been completed as specified in this condition.

Innovative /Alternative System Conditions for Ecoflow® Biofilter

- 3.7.A. The leaching systems must be designed, installed and operated in accordance with the Rules and as described in the **Ecoflow® Biofilter** Design and Installation Manual and the filed with the Agency of Natural Resources (Agency) on 4/9/02, 3/10/04, 7/12/05, 9/19/05 and the NSF ® Evaluation Report, dated 11/05.
- 3.7.B. The **Ecoflow® Biofilter** shall be inspected by a Professional Engineer registered in Vermont as a civil, civil/sanitary, sanitary or environmental engineer or a Licensed Type 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.
- 3.7.C. The **Ecoflow® Biofilter** shall be installed accordance with the approved plans and under the instruction and guidance of an installer/inspector trained by the manufacturer.
- 3.7.D. The engineer or site technician shall inspect all transport piping for proper installation and water-tightness before backfilling.

Proposed Residence For
**Stephen & Terri
Lewis**
Pittsfield, Vermont



CHECKED: RLM
APPROVED:

CONSULTANT:



MICHAEL ENGINEERING COMPANY, PC
Engineers and Land Surveyors
18 Maple Street, Lenoir, VT 05148 • 802.838.3777 •
Fax: 802.838.4777 • mepco@tdcn.net

OWNER:
Stephen and Terri Lewis
8 Somers, CT 06071

I hereby certify that the design-related information included
with this application is true and correct, and that, in the
design of this project, I have followed the applicable
Vermont Water Supply Rules and the Vermont Water Supply
Rules and the Vermont Water Supply Rules.

Project No. 1000-C (Assumed)
Date: 5/17/20

REVISIONS

NO.	DESCRIPTION	DATE
1	Water Supply Management Division THIS IS SUBJECT TO REVISIONS OR PERMITS FROM THE STATE OF VERMONT Date: 5/17/20	

**Site Plan -
Water and Wastewater Systems -
Lot 10 of Hawk Mountain Subdivision**

SCALE: AS SHOWN
PROJECT NO.: 1000-C (Assumed)
SHEET NO.: 07-56
DATE: 04/19/2010
1
Lewis
Company

Design Basis For Wastewater System -
Single family residence with 3 bedrooms @ 140 gpcd/bedroom = 420 gpd

Performance based analysis
1. Design parameters
Depth to SHWT: 17'
Soil: 17' to 20' clay
Soil: 20' to 24' clay
Soil: 24' to 28' clay
Soil: 28' to 32' clay
Soil: 32' to 36' clay
Soil: 36' to 40' clay
Soil: 40' to 44' clay
Soil: 44' to 48' clay
Soil: 48' to 52' clay
Soil: 52' to 56' clay
Soil: 56' to 60' clay
Soil: 60' to 64' clay
Soil: 64' to 68' clay
Soil: 68' to 72' clay
Soil: 72' to 76' clay
Soil: 76' to 80' clay
Soil: 80' to 84' clay
Soil: 84' to 88' clay
Soil: 88' to 92' clay
Soil: 92' to 96' clay
Soil: 96' to 100' clay
Soil: 100' to 104' clay
Soil: 104' to 108' clay
Soil: 108' to 112' clay
Soil: 112' to 116' clay
Soil: 116' to 120' clay
Soil: 120' to 124' clay
Soil: 124' to 128' clay
Soil: 128' to 132' clay
Soil: 132' to 136' clay
Soil: 136' to 140' clay
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Soil: 1920' to 1924' clay
Soil: 1924' to 1928' clay
Soil: 1928' to 1932' clay
Soil: 1932' to 1936' clay
Soil: 1936' to 1940' clay
Soil: 1940' to 1944' clay
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Soil: 2036' to 2040' clay
Soil: 2040' to 2044' clay
Soil: 2044' to 2048' clay
Soil: 2048' to 2052' clay
Soil: 2052' to 2056' clay
Soil: 2056' to 2060' clay
Soil: 2060' to 2064' clay
Soil: 2064' to 2068' clay
Soil: 2068' to 2072' clay
Soil: 2072' to 2076' clay
Soil: 2076' to 2080' clay
Soil: 2080' to 2084' clay
Soil: 2084' to 2088' clay
Soil: 2088' to 2092' clay
Soil: 2092' to 2096' clay
Soil: 2096' to 2100' clay
Soil: 2100' to 2104' clay
Soil: 2104' to 2108' clay
Soil: 2108' to 2112' clay
Soil: 2112' to 2116' clay
Soil: 2116' to 2120' clay
Soil: 2120' to 2124' clay
Soil: 2124' to 2128' clay
Soil: 2128' to 2132' clay
Soil: 2132' to 2136' clay
Soil: 2136' to 2140' clay
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Soil: 2160' to 2164' clay
Soil: 2164' to 2168' clay
Soil: 2168' to 2172' clay
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Soil: 2176' to 2180' clay
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Soil: 2184' to 2188' clay
Soil: 2188' to 2192' clay
Soil: 2192' to 2196' clay
Soil: 2196' to 2200' clay
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Soil: 2204' to 2208' clay
Soil: 2208' to 2212' clay
Soil: 2212' to 2216' clay
Soil: 2216' to 2220' clay
Soil: 2220' to 2224' clay
Soil: 2224' to 2228' clay
Soil: 2228' to 2232' clay
Soil: 2232' to 2236' clay
Soil: 2236' to 2240' clay
Soil: 2240' to 2244' clay
Soil: 2244' to 2248' clay
Soil: 2248' to 2252' clay
Soil: 2252' to 2256' clay
Soil: 2256' to 2260' clay
Soil: 2260' to 2264' clay
Soil: 2264' to 2268' clay
Soil: 2268' to 2272' clay
Soil: 2272' to 2276' clay
Soil: 2276' to 2280' clay
Soil: 2280' to 2284' clay
Soil: 2284' to 2288' clay
Soil: 2288' to 2292' clay
Soil: 2292' to 2296' clay
Soil: 2296' to 2300' clay
Soil: 2300' to 2304' clay
Soil: 2304' to 2308' clay
Soil: 2308' to 2312' clay
Soil: 2312' to 2316' clay
Soil: 2316' to 2320' clay
Soil: 2320' to 2324' clay
Soil: 2324' to 2328' clay
Soil: 2328' to 2332' clay
Soil: 2332' to 2336' clay
Soil: 2336' to 2340' clay
Soil: 2340' to 2344' clay
Soil: 2344' to 2348' clay
Soil: 2348' to 2352' clay
Soil: 2352' to 2356' clay
Soil: 2356' to 2360' clay
Soil: 2360' to 2364' clay
Soil: 2364' to 2368' clay
Soil: 2368' to 2372' clay
Soil: 2372' to 2376' clay
Soil: 2376' to 2380' clay
Soil: 2380' to 2384' clay
Soil: 2384' to 2388' clay
Soil: 2388' to 2392' clay
Soil: 2392' to 2396' clay
Soil: 2396' to 2400' clay
Soil: 2400' to 2404' clay
Soil: 2404' to 2408' clay
Soil: 2408' to 2412' clay
Soil: 2412' to 2416' clay
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Soil: 2432' to 2436' clay
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Soil: 2440' to 2444' clay
Soil: 2444' to 2448' clay
Soil: 2448' to 2452' clay
Soil: 2452' to 2456' clay
Soil: 2456' to 2460' clay
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Soil: 2496' to 2500' clay
Soil: 2500' to 2504' clay
Soil: 2504' to 2508' clay
Soil: 2508' to 2512' clay
Soil: 2512' to 2516' clay
Soil: 2516' to 2520' clay
Soil: 2520' to 2524' clay
Soil: 2524' to 2528' clay
Soil:

Specifications - Wastewater Disposal System

I. Building Saver

The building sewer is the pipe extending from the building drain to the septic tank.

- The building sewer shall be PVC SCH 40 sewer service pipe.
- The building sewer shall be 4" diameter and laid at a minimum slope of 1/4" per foot.
- The building sewer shall be installed in a trench with a minimum depth of 48 inches and a minimum cover of 18 inches.
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II. Septic Tank

- The septic tank shall be constructed of concrete or steel with a minimum wall thickness of 4 inches.
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III. Effluent Saver

- The effluent saver shall be constructed of concrete or steel with a minimum wall thickness of 4 inches.
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IV. EcoFlo Filter STB-600R

- The EcoFlo filter shall be installed in accordance with the manufacturer's recommendations.
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V. Mound System

- The mound system shall be constructed in accordance with the manufacturer's recommendations.
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VI. Note To Installer

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VIII. Note To Installer

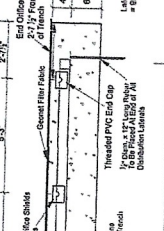
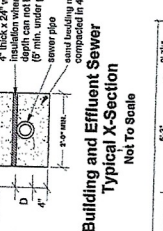
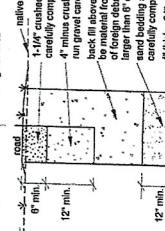
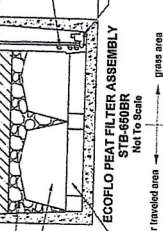
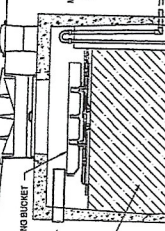
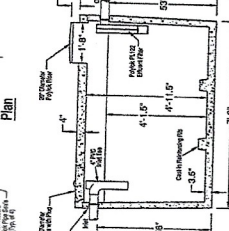
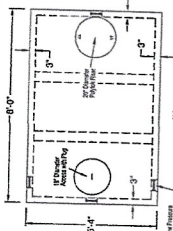
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General Notes -

- This plan is not a survey. No determination of boundaries has been performed or is implied on this plan.
- The owner or contractor must verify the location of all existing utilities by a total station survey. Elevation datum is assumed to be based on a USGS datum.
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Proposed Residence For
Stephen & Terri Lewis
Pittsfield, Vermont

DRAWN BY: DMV
CHECKED BY: RHM
APPROVED BY: [Signature]
CONSULTANT: [Signature]

MICHAEL ENGINEERING COMPANY, INC.
1000 Main Street
Pittsfield, VT 05750
Tel: 802.253.7777 • Fax: 802.253.7777 • mep@meconline.com

OWNER:
Stephen & Terri Lewis
1000 Main Street
Pittsfield, VT 05750

I hereby certify that the design and construction information submitted with this application is true and correct and that I am a duly licensed professional engineer in the State of Vermont. I am the designer of the Wastewater Disposal System and the Vermont Water Supply Rules and the Vermont Water Supply Rules.

[Signature]
Ralph J. Michael P.E.

NO.	DESCRIPTION	DATE
1	Revised design and construction information submitted with this application is true and correct and that I am a duly licensed professional engineer in the State of Vermont. I am the designer of the Wastewater Disposal System and the Vermont Water Supply Rules and the Vermont Water Supply Rules.	07/26/2010

Specifications Details -
Water and Wastewater Systems -
Lot 10 of Hawk Mountain Subdivision

SCALE: AS SHOWN
PROJECT NO.: 07-56
SHEET NO.: 2
DATE: 04/19/2010

LEWIS
1000 Main Street
Pittsfield, VT 05750