Board of Health Minutes

January 8, 2018

1. The ABOH Meeting convened at 6:30 PM. The following members present Glenn Hathaway, Patrick Durkee, Thomas Flanagan, Scott Sibley and NABOH Rick Metcalf.

2. Convened: 6:30

Approved agenda

Minutes dated December,4 2017 VOTED and ALL APPROVED.

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TOWN CLERK'S OFFICE
BRIDGEWATER, MA 02324

3. Septic Permits (all signed)

- Depot Rd., Lot A-New Construction
- Depot Rd., Lot B-New Construction
- Lot2, Westminster St.-New Construction

4. Hearings

- 6:35:

124 Sherbert Rd.-Local upgrade approval request

Requested variance: Reduction in offset of waterline from septic from 10ft. to 8ft.

Unanimously approved

5. Board reviewed correspondence.

The ABOH January 8, 2018 meeting adjourned at 6:50 PM.

Respectfully submitted,

Thomas Flanagan

Acting Secretary, ABOH

(A)

Geo-Services
Environmental Consultants
PO Box 375
Princeton, MA 01541
978-502-8070
cjk3557@yahoo.com

RECEIVED
JAN 16 2018
BY

December 26, 2017

Mr. Glenn Hathaway
Chairman, BOH
Town Hall
32 Main Street
Ashburnham, MA 01430

RE: 4 Spruce Drive, Request for Local Upgrade Approvals from 310 CMR 15.00 Title 5, Septic System replacement project. Assessors ID: 47-21

Dear Mr. Hathaway:

Adam and Leah Bozza wish to replace the septic system at their home located at 4 Spruce Drive in Ashburnham, MA. Because of some physical constraints of the property we are requesting the following two Local Up-Grade Approvals per 310 CMR 15.405:

310 CMR 15.405 (1) (i): In lieu of a percolation test a representative soil sample was collected and analyzed by a MADEP certified laboratory in accordance with Departmental guidance. A percolation test was not performed due to the moist soil conditions at the time of testing. Please refer to the analytical data sheet submitted with this application for specific information on this.

310 CMR 15.405 (1) (h): a reduction in the vertical offset between the SAS and the seasonal maximum groundwater elevation.

The sieve and hydrometer analysis of the representative soil sample determined it to be "sand" (class 1 soil) which would require a 5' vertical offset. It is our belief that the soils are sufficiently firm (in situ) that the percolation rate would have been somewhat slower than less than 2 minutes per inch. This is based on the level of effort observed during excavating with a backhoe and working the soil by hand in the observation holes.

Therefore. we are asking for a 2' vertical reduction due to the constraints of the site. If the SAS was proposed 1' higher, an effluent ejector system would be needed.

Placing a pump chamber on the lot would create further issues due to the available limited space. Also, a higher retaining wall for the walk way would be necessary. This would increase the cost of an already costly endeavor. We feel that the Presby Enviro-System has a greater efficiency than a conventional system in this setting.

We hope that this information will be useful in your evaluation of this project. Please feel free to contact our office if you have any questions about our requests.

Sincerely,

Christopher J. Knuth R.S.
Principal/ Geologist

(B)

HANNIGAN ENGINEERING, INC.
8 MONUMENT SQUARE, LEOMINSTER, MA 01453 PHONE: (978) 534-1234 FAX (978) 534-6060 | CIVIL ENGINEERS & LAND SURVEYORS

Glenn Hathaway, Chairman
Ashburnham Board of Health
Town Hall
32 Main Street
Ashburnham, Massachusetts 01430

January 17, 2018

RE: Request for Local Upgrade Approval (LUA)
Dan Martin
7 Wellville Beach Trail, Ashburnham

Dear Mr. Hathaway

On behalf of our client, Dan Martin, Hannigan Engineering, Inc. has prepared this Request for Local Upgrade Approval for the replacement of non-compliant Title V subsurface sewage disposal system at 7 Wellville Beach Trail (Map 64, Parcel 11). The lot currently contains several residential structures that have historically been used as summer cottages along Winnekeag Pond, these dwelling units currently discharge wastewater to an existing cesspool located on the property. It is the intent of the applicant to discontinue the use of this cesspool and construct a new Title V compliant system to serve the existing dwelling units by installing Presby Advanced Enviro-Septic system.

The proposed Presby AES system is an alternative technology that has been granted Remedial Use Approval from the Massachusetts Department of Environmental Protection per its approval letter dated September 26, 2014. Additionally, a Local Upgrade Approval (LUA) is also requested for the reduction in the required offset to the Estimated Seasonal High Groundwater Table (ESHGWT). The proposed system is intended to replace an existing non-compliant system and a reduction in the groundwater offset from four (4) feet to two and one-half (2.50) feet is requested. A reduction of up to two (2) feet is allowed per Massachusetts Advanced Enviro-Septic Design and Installation Manual, Dec 2016, Section 4.21. Under the proposed design, the actual reduction is one and one-half (1.50) feet.

In addition to the use of an Innovative system, a LUA, is also requested relative to the proposed septic tank and pump chamber's inlet and outlet tees and the offset to the ESHGWT. Per 310 CMR 15.405(1)(j), the local Approving Authority can approve the *"Reduction of the requirement of a 12-inch separation between the inlet and outlet tees and high groundwater, provided that all boots and pipe joints are sealed with hydraulic cement or installed with watertight sleeves and the tank is proven watertight..."*. As such further detail has been added to the plan set to depict the piping entering and exiting the tanks being set with hydraulic cement and ensuring watertight tanks. As depicted on the plans, the elevation of the ESHGWT is at approximately 1131.0 feet, using testing information provided on site and presuming consistent soil conditions. The proposed septic tank outlet has been set at 1131.15 feet, and the pump chamber set at 1131.05, essentially at the high groundwater. Prior to construction, additional soil testing will be performed in the area of these tanks to confirm these presumptions.

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By

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ENGINEERING, INC.
8 MONUMENT SQUARE, LEOMINSTER, MA 01453 PHONE: (978) 534-1234 FAX (978) 534-6060 | CIVIL ENGINEERS & LAND SURVEYORS

Hannigan Engineering, Inc. is providing this information to assist the Board, and would like to be placed on the agenda for the next available meeting. We look forward to working with you on this project and would be available to meet and review aspects of the project should questions arise prior to the meeting with the Board. Please feel free to contact me at this office should you have any questions or concerns.

Sincerely,
HANNIGAN ENGINEERING, INC

Christopher M. Anderson, EIT
Project Engineer

William D. Hannigan, PE
President

pc: Dan Martin
J:\My Documents\PROJECTS\2500+\2591-GOGUEN\BOH\2591-LUA request.docx