

The regular meeting of the Board of Health was called to order at 7:30 p.m. Present for this meeting were: Tony Berberabe, Les Hamilton, Tim Martin, Ted Peyrek III, Jim Rosso, Larry Tatsch and David Wang-Iverson. Tracy Carluccio was absent. Also present: Carolyn Fritsch, Deputy Clerk.

In compliance with the Open Public Meetings Act, this meeting was advertised as a regularly scheduled meeting in the January 29, 2009 issue of the Hunterdon County Democrat. Notice of the meeting was discussed with and sent to the applicants, filed with the Township Clerk, posted on the Township bulletin board and sent to the Hunterdon County Democrat and the Trenton Times on September 10, 2009.

ANNOUNCEMENTS/AGENDA REVIEW

Nothing to announce at this time.

PRESENTATION OF THE MINUTES - August 18, 2009

Mr. Tatsch said he had a few typographical corrections for the minutes. First, however he wanted to commend Mrs. Fritsch on her portrayal of minutes. Mr. Tatsch stated he liked the format, highlighting, they were concise, easy to read and the grammar was excellent. Mrs. Fritsch thanked Mr. Tatsch for the complements. Mr. Wang-Iverson stated he agreed with Mr. Tatsch, the minutes were nice and concise.

Mr. Tatsch motioned to approve the August 18, 2009 minutes, seconded by Mr. Martin, with the grammatical changes as noted.

Mr. Hamilton and Mr. Rosso abstained. The motion carried by unanimous vote.

OPEN TO THE PUBLIC

There being no comments from the public, Mr. Hamilton motioned to close the public comment portion of the meeting, seconded by Mr. Tatsch, and carried unanimously.

UNFINISHED AND NEW BUSINESS

A. Hunterdon County Inspector's Report

1. **HESS STATION: LETTER and REPORT of 8/27/09 from D. MUSCALO**, Advocate Environmental Consulting, Inc. Re: CEA Biennial Cert. Review Fee, Suburban Sunoco, 1019 Route 202, Case #92-03-13-1125
Dan Wyckoff from the Hunterdon County Health Department commented that the report notes the steel cover plate on well #9 is missing. This should be addressed, especially if it leads to the aquifer.
2. **OWENS AKA WOODY'S - B 16, L 11 - Update**
The remediation is still continuing. There is no further information.

Mr. Tatsch asked Mr. Wyckoff if he had received any information with regard to the Spring Hill Road complaint. Mr. Wyckoff said the complaint has been assigned to an inspector however Mr. Wyckoff has not been able to coordinate a time with the inspector to ascertain what has been discovered. Mr. Tatsch asked Mr. Wyckoff if he could please e-mail the Board with an update regarding this issue.

B. Preview Committee**MEGGITT, B 40.01, L 7 – 80 Runyon Mill Road**

Bayer-Risse Engineering designed the proposed septic system for Mr. Meggitt. The plan before the Board, for consideration, is dated August 10, 2009, and includes 13 pages.

Ted Bayer with Bayer-Risse Engineering identified himself for the record.

Mr. Wang-Iverson stated he had spoken to Mr. Bayer on the phone and had asked Mr. Bayer to present justification for a peat system in this location. Mr. Bayer addressed the Board with the following information:

The property is a 4.7 acre site, located at the intersection of Mountain Road and Runyon Mill Road. There are several encumbrances on the site, which is in the "Mountain" preservation district.

1. There is a 200 foot setback from the existing well to any proposed septic system.
2. The well is somewhat centrally situated on the property.
3. There is an existing 3 bedroom house about 100 feet north of the well, with an existing malfunctioning disposal field.

The house was constructed in the late 1970's. The original septic system was a septic tank with gravity flow to a series of disposal trenches. There was a malfunction in late 1999 – early 2000, and a repair was done, replacing one of the trenches with an infiltrator system. Mr. Bayer did an inspection of the existing system early this summer and found effluent coming out of the ground at the end of the infiltrator, and all the trenches were saturated. Mr. Bayer had to come up with an alteration design.

To the north of the existing system there is an edge of the wetlands and wetlands transition area.

Soil logs were initialized along the western property line. Three soil logs were excavated and identified as soil log 706-1, 706-2 and 706-3. The findings were: top soil underlain by silt loam that was mottled from 24 inches to 34 inches, 24 inches to 32 inches, and 24 inches to 37 inches. Under the silt loam was non-soil, hard shale. From the bottom of the silt loam to the top of the non-soil was all mottled. There was refusal at six feet in one hole, three feet in the second hole and just less than 7 feet in the third hole, nothing that would yield an adequate permeability test.

Moving out to the front of the property, more soil logs were excavated, 706-4, 706-5, 707-6 and 707-7. This is a wooded area, and a basin flood test was conducted with 375 gallons of water. There was no draining of the water within a 24 hour period.

Soil log 707-7 was excavated half way between the house and road, alongside the driveway. There was 70 inch refusal, mottling from 24 inches to 36 inches, and similar yellow silt loam with heavy mottling.

The southwest corner of the property was heavily wooded with large boulders which prevented further testing. There was no ground water to perform a pit-bailing test. The basin flood test had failed, so perk tests were conducted in the topsoil. Two perk tests were performed as per code requirements. The first was 5.3 minutes per inch and the second was 8.3 minutes per inch. Because they were in the topsoil, they could not be used as a basis for the design of a conventional disposal field. Consequently, the design for the peat treatment and drip dispersal system was prepared. Mr. Bayer felt there was no other viable option to provide a working septic system on the property.

Mr. Bayer proposes abandoning the existing septic tank, pumping it out, crushing it in place and filling it with sand. The existing trenches will be left as they are. A new two compartment 1500 gallon septic tank will be installed with an effluent filter, as per East Amwell Township requirement. Also proposed is a 1250 gallon pump tank, adjacent to the house and next to the septic tank, which will pump up to the Bord Na Mona peat pods. There is one peat pod for

each bedroom of the house, with dimensions of approximately 7 feet long, 4 ½ feet wide and 2 ½ feet tall. They are filled with peat fiber and have a piping network inside to dose the filtered septic tank effluent down through the peat. Each peat pod is tied down to prevent movement during torrential rain. There is also an under-drain collection system. After the effluent filters through the 2 ½ feet of peat media, it is collected and transferred to a 250 gallon drip dispersal dosing tank. The drip dispersal dosing pump will be a ½ horse power pump that runs at a very high pressure, 40 – 60 pounds per square inch. The diameter of the drip dispersal tubes is about the size of an index finger, and they are laid shallow in the topsoil. When the pump cycles every two hours, a full flush of effluent is circulated through the drip tubes. The drip dispersal system was sized so that, at the dosing rate of 41 gallons every two hours, it will never become saturated. There is a float-switch override in the event of a greatly increased usage of water situation. Both pump tanks, the peat dosing tank and the drip dispersal tank, have high water level alarms. There is a one day storage volume, in each tank, above that alarm.

Mr. Bayer stated that with regard to the Hunterdon County Department of Health letter from Bob Vaccarella, dated 9/15/09:

Items #1-10 are items that are typically required by the East Amwell Board of Health. Item # 11 - The guidance document issued by DEP and also the East Amwell Code states the septic should be designed for **2.08 square feet of disposal area per gallon per day**. The drip design guidance document says **.253 square feet per gallon per day** which is the inverse. To put this into perspective, they are actually designing for 3.95 square feet per gallons per day. This equates to about a 90% overdesign compared to what East Amwell Code requires.

Mr. Wang-Iverson asked if this system is fragile or requires more maintenance. Mr. Bayer responded, the drip dispersal pump tank has a filter which needs to be cleaned, and there is another filter, between the delivery manifold and the return manifold that needs cleaning as well. The tubes are pretty rugged, and are laid between 6 – 9 inches under the ground. The question of the tubes freezing was broached. Mr. Bayer said the manifolds drain back into the drip dispersal tank. There is a vacuum relief valve at the far end of each of the manifolds, so it doses and drains back. If one of the tubes froze or broke, it would be made apparent by a wet spot. The maintenance agreement is in perpetuity and goes with the deed on the property.

Mr. Wang-Iverson reviewed the waivers that needed to be acted on by the Board, in the letter from Bob Vaccarella of the Hunterdon County Department of Health.

Mr. Martin motioned to approve the septic design as presented with waivers as noted in the September 15, 2009 letter from Bob Vaccarella of the Hunterdon County Department of Health for B 40.01, L 7, and all standard conditions as required by the East Amwell Board of Health for Drip Dispersal Systems and Peat Systems. The motion was seconded by Mr. Tatsch and carried unanimously.

ITEMS OF DISCUSSION

A. Education and Health Issues

H1N1 Virus -

Discussion was held regarding placing a link on the East Amwell Township website to the Hunterdon County website to assist the public in finding information about the H1N1 virus. Mrs. Fritsch will check with Clerk Stahl.

Available Funds for Hepatitis B Inoculation –
Mrs. Fritsch will inform the Office of Emergency about the information received from LINCS regarding the application for reimbursement of costs for Hepatitis B vaccination.

B. Administrative Officer’s Report

1. Annual reports of maintenance inspection for the following Peat Systems were received:
Fernandez: B 36, L 5, Harrison: B 12, L 14, Echiverri: B 27, L 72
2. Taigh Rainey, HC Mosquito Program Superintendent reports an increased detection of West Nile Virus in Hunterdon County Mosquito Pools. The website and VIP should be updated with this information.

C. Ordinance Committee

Ms. Carluccio would like to set up a meeting to discuss changes regarding hydraulic fracturing of wells, to ensure no chemicals are used to aid the hydrofracking procedure. Ms. Carluccio would also like to discuss if an Ordinance for Geothermal wells is needed.

CORRESPONDENCE

No comments with regard to the correspondence as presented.

BILLS OF THE EVENING

Hopewell Valley Engineering – Soil Witnessing, - B 35.01, L 32.01, and B 40.01, L 7, - \$1,680.0

H.C. Health Dept. Inspections - \$2,650.00

Mr. Hamilton motioned to approve the bills of the evening, seconded by Mr. Martin. The motion carried unanimously. (It was noted that there should be a line to print your name on the bills as well, since some signatures are illegible.)

OPEN TO THE PUBLIC

There being no public, the motion was made by Mr. Martin to close the public session, seconded by Mr. Tatsch and carried unanimously.

ADJOURNMENT

Mr. Tatsch motioned, seconded by Mr. Martin to adjourn the meeting at 8:22 p.m. The motion carried unanimously.

Respectfully submitted,

Carolyn Fritsch, Deputy Clerk