

READINGTON TOWNSHIP BOARD OF HEALTH MEETING

May 18, 2011

Chair William C. Nugent called the meeting to order at 7:16 p.m. and announced that all laws governing the Open Public Meetings Act have been met and that this meeting has been duly advertised.

Attendance Roll Call:

Christina Albrecht	present	7:20 – 9:00pm	William C. Nugent	present	Wendy Sheay	absent
Jane Butula	present		Tanya Rohrbach	present	Donna Simon	present
Beatrice Muir	present					

Also Present: Board of Health Engineer, Ferriero Engineering, Inc. representative Joe Kosinski

A. APPROVAL OF THE MINUTES

1. Minutes of February 16, 2011.

A **MOTION** was made by Ms. Albrecht to approve the minutes. The motion was seconded by Ms. Butula. On roll call vote, the following was recorded for approval of the 2/16/11 minutes:

Ms. Albrecht Aye Ms. Butula Aye Ms. Simon Aye Chair Nugent Aye

2. Minutes of March 16, 2011.

Deferred.

3. Minutes of April 20, 2011.

A **MOTION** was made by Ms. Muir to approve the minutes. The motion was seconded by Ms. Butula. Ms. Butula noted some corrections on page 3 of 9, B. 9. Correspondence.

On roll call vote, the following was recorded for approval of the 4/20/11 minutes:

Ms. Butula Aye Ms. Muir Aye Ms. Rohrbach Aye Chair Nugent Aye

B. CORRESPONDENCE

1. **Suspected Hazardous Discharge Notification** letter dated 4/14/11 regarding oil heating.
2. **Suspected Hazardous Discharge Notification** letter dated 4/22/11 re:1,1-dichlorethene, 1,1,1 trichloroethane. *Ms. Butula noted that a report close to this was before the board in 1986.*
3. **Suspected Hazardous Discharge Notification** letter dated 4/23/11 regarding diesel fuel.
4. **Suspected Hazardous Discharge Notification** letter dated 4/28/11 regarding oil heating.
5. **Suspected Hazardous Discharge Notification** letter dated 4/28/11 regarding oil heating.
6. **Suspected Hazardous Discharge Notification** letter dated 5/5/11 regarding oil heating.
7. **Rte 31 S. and Readington Township, Hunterdon County** - NJDEP –dated 4/28/11 – No further action letter.
8. **NJDHSS** – NJ animal rabies cases by county and species – (corrected 1/25/11)
9. **HCDH LINCS** – dated 4/28/11 – Public Health ADVISORY – Measles overview.

C. SEPTIC REPAIRS

D. OLD BUSINESS

1. NJDEP proposed revisions to 7:9A.

Chair Nugent stated that Ferriero Engr. prepared a document noting the proposed changes to NJAC 7:9A.

Ms. Butula stated that she was very pleased with the content of this document. Some of the proposed changes are good, some have already been done by this board.

Mr. Kosinski stated that a lot of their questions were answered, and new ones were created, clarification from the state is pending.

Chair Nugent stated that at next month's meeting, there would be a discussion including the board members, Mr. Hansen and Mr. Kosinski.

E. NEW BUSINESS

1. *Chair Nugent stated that it was brought to the attention of the board by Mr. Colburn that there may be changes to legislation requiring the Board of Health to be involved in the regulation of fertilizer.*

There was some discussion of the board's involvement.

Ms. Muir noted that the state can mandate the type of fertilizer spreaders used, rotary spreaders as opposed to drop spreaders tend to distribute the fertilizer onto the street and areas where it is not intended to be spread.

There was some discussion of educating the public as far as safe application techniques.

Ms. Butula suggested using the township website as a start.

Ms. Albrecht stated that the Environmental Commission has discussed making the website more informative, which could include information on the application of fertilizers.

Ms. Simon stated that perhaps NALBOH would have some ideas.

Ms. Petzinger will contact the HCDH for any information they may have.

2. *Chair Nugent stated that a topic of conversation the board may be interested in is that there is more documentation required for a septic system than for a new well. Legislation at the state level suggests recommendations for new wells, but trying to find out existing well information may be difficult.*

F. APPROVALS

Time heard: 8:00 p.m.

A. Category B. – Subdivisions

1. **Block 38/Lots 54, 74 & 75 – James R. Frace, Renda Subdiv. Pearl St. & Ridge Rd.**

Escrow fees paid 12/20/06, Ck# 849 \$500.00.

Escrow fees paid 12/22/06, Ck# 857 \$1000.00.

Escrow fees paid 9/19/07, Ck# 1037 \$1500.00.

Escrow fees paid 7/13/09, Ck# 1470 \$1500.00.

Escrow fees paid 3/15/11, Ck# 1794 \$1500.00.

Previously heard 4/20/11.

Chair Nugent stated that at last months' meeting, Lots **54.02** and **54.03** were reviewed and approved. The next lot in succession will be **54.04**. A new map was included in the packet for this month.

Mr. Robert Templin appeared before the board. The board had requested that they would like to see the freshwater wetland boundary line LURP file number on the map, so that has been added to the plan along the wetland corridor through the center of the tract. They would begin with proposed Lot 54.04 for the next lot. The reserve area is proposing to utilize soil log 28A and 29A. 28A is a soil log recorded on 2/1/10, depth of 144", no mottling, seepage at 96", 24 hour reading of 77". During the monitoring period, a water table of 39", which is the regional zone of saturation. Soil log 29A, recorded on 2/1/10, depth of 144", seepage at 84", 24 hour reading of 80". Ground water reading of 36" during the monitoring period on 3/13/10, which is the regional zone of saturation in the soil log.

Pit bail in 29A, depth 11', K rate of 48.21"/hour, very quick. For the reserve, soil log 26A, soil log 27A. 26A was recorded 2/1/10 at 132", ground water reading of 27" during the monitoring period, utilizing the reading of 27" for the regional zone of saturation. The pit bail was performed at a depth of 11' on 2/1/10, K rate of 11.79"/hour. Soil log 27A, in the reserve area, recorded on 2/1/10, depth of 144", seepage at 60", 24 hour reading of 67", during the monitoring period, ground water was at 32", utilizing the reading of 32" for the regional zone of saturation for that soil log. Soil log 3 pit bail was performed at a depth of 170' on 1/12/05, reading of 58", during the monitoring period, utilizing the reading of 58" for the regional zone of saturation. The pit bail was performed on 1/12/05, depth 11'5", K rate of 11.99. Soil log 4 pit bail was performed on 1/12/05, seepage at 112", 24 hour reading of 54". Ground water reading during the monitoring period of 39", utilizing the reading of 39" for the regional zone of saturation.

Chair Nugent confirmed that Lot 16 is to the west of this proposed lot, it is an existing home with existing systems, and asked what the distance is between the approximate septic location on Lot 16 and the proposed one on 54.04? and also on Lot 81 to the north?

Mr. Templin stated that it is approximately 120', that is to the reserve area. Lot 81 appears to be approximately 100'. Chair Nugent asked if there were any other questions. There was no response from the board.

A **MOTION** was made by Ms. Butula for **approval** for proposed Lot **54.04** tested as Lot 2 for a proposed 5 bedroom dwelling, Block 38/Lot 54-74-75; new construction, major subdivision. The map is Onsite Wastewater Disposal Plan for Major Subdivision, Lots 54, 74 and 75, Block 38, Readington Township, Hunterdon County, New Jersey, dated 10/12/06, revisions 6/18/07, 7/25/08, 2/3/09, 12/21/09, 6/25/10, 11/2/10, 5/5/11 prepared by Debra D'Amico, a licensed professional engineer in NJ. The surveyor is Thomas Strong, licensed professional land surveyor, topographical is 3/8/10, dates 5/24/07, 10/20/08, 1/11/10, and 3/8/10. Ferriero Engineering reports are dated 3/30/07, 10/1/07, 11/24/08, 8/20/09, 10/21/10, 11/17/10, 1/10/11, 2/15/11, 4/4/11.

For the primary, testing was performed 2/1/10, soil log 28-A, 144", no mottling, no hydraulically restricted horizon, seepage @ 96", 24-hours 77". Soil log 29A, 144", no mottling, no hydraulically restricted horizon, seepage @ 84", 24-hours 80". Permeability test is pit bail 1 in soil log 29A, 2/1/10, @ 144", passing results K=48.21"/hour. In season groundwater monitoring was done 2/20/10 to 4/10/10 in soil log 28A the highest was 39" on 3/27/10. Regional water for the primary is determined by soil log 28A @ 39" on 3/27/10. Reserve area testing was done 2/1/10, soil log 26A @ 132", no mottling, no hydraulically restricted horizon, seepage @ 55". Soil log 27A @ 144", no mottling, no hydraulically restricted horizon, seepage @ 60". Soil log 3 dated 1/12/05, @ 170", mottling @ 77 – 80", seepage @ 110" and below, no hydraulically restricted horizon. Soil log 4 dated 1/12/05, @ 170", mottling @ 56 – 92", seepage @ 112" and below, no hydraulically restricted horizon. Permeability test is pit bail 1 in soil log 26A, 2/1/10, @ 11", passing results K=11.79"/hour. Pit bail 1 in soil log 3, 1/12/05, results K=11.99"/hour. In season groundwater monitoring was done 2/20/10 to 4/10/10 in soil log 26A the highest was 27" on 3/6/10, highest 32" on 3/27/10; soil log 3 was 58" on 2/19/05; soil log 4 was 39" on 2/19/05. Regional groundwater is determined by soil log 26A, on 3/6/10, @ 27". The LOI dated 11/9/05, case # 1022-05-0004.1 (FWW-050001). The extension was granted 2/28/11, case # 1022-05-0004.1 (FWW-10001), states that the wetlands on subject property are of intermediate resource value which requires a standard transition area or buffer of 50'. The department has identified state open waters on the property, noted on the referenced plan as state open waters in 3 areas, not associated with wetlands. The state open waters are noted on the reference plan and also between the following wetland points, W35, W52, W19, W51 and W45 to the northern property line. A buffer is not required adjacent to state open waters under the Freshwater Wetlands Act but a riparian zone is required under the Flood Hazard Control Act. Referring to wetlands survey Lot 75, 74, 54 of Block 38 dated 9/29/05, revisions 5/12/04, 2/24/05, 9/29/05.

This motion was seconded by Ms. Albrecht, on roll call vote, the following was recorded:

Ms. Albrecht	Aye	Ms. Muir	Aye	Ms. Simon	Aye
Ms. Butula	Aye	Ms. Rohrbach	Aye	Chair Nugent	Aye

Time heard: 8:20 p.m.

Chair Nugent stated that they would move on to Lot **54.05**.

Mr. Templin stated in the primary disposal field, soil log 1A was performed on 1/26/10, to 168", there was no seepage, no water, no mottling. There were no limiting zones identified. Soil log 2A, also in the primary area, was performed on 1/26/10, to 168", there was no seepage, no water, no mottling. There were no limiting zones identified except for fractured rock substratum at 96" and excessively coarse horizon at 96 – 168". Soil log 45A was performed on 2/24/10, depth of 168", there was no seepage, mottling or water observed in the soil log. A basin flood was performed at 100", results passing. ". Soil log 47A was performed on 2/24/10, depth of 168", there was no seepage, mottling or water observed in the soil log. In the reserve area, soil log 3A was performed on 1/26/10, depth 168", there was no seepage, mottling or water observed in the soil log. Soil log 46A was performed on 2/24/10, depth of 168", there was no seepage, mottling or water observed in the soil log. Basin flood in 46A passed. Soil log 48A was performed on 2/24/10, depth of 168", there was no seepage, mottling or water observed in the soil log.

Chair Nugent asked if there were any other questions.

There was no response from the board.

A **MOTION** was made by Ms. Butula for **approval** for proposed Lot **54.05** tested as Lot 15 for a proposed 5 bedroom dwelling, Block 38/Lot 54-74-75; new construction, major subdivision. The map is Onsite Wastewater Disposal Plan for Major Subdivision, Lots 54, 74 and 75, Block 38, Readington Township, Hunterdon County, New Jersey, dated 10/12/06, revisions 6/18/07, 7/25/08, 2/3/09, 12/21/09, 6/25/10, 11/2/10, 5/5/11 prepared by Debra D'Amico, a licensed professional engineer in NJ. The surveyor is Thomas Strong, licensed professional land surveyor, topographical is 3/8/10, dates 5/24/07, 10/20/08, 1/11/10, and 3/8/10. Ferriero Engineering reports are dated 3/30/07, 10/1/07, 11/24/08, 8/20/09, 10/21/10, 11/17/10, 1/10/11, 2/15/11, 4/4/11.

For the primary, testing was performed 1/26/10, soil log 1-A, 168", no mottling, no hydraulically restricted horizon, no seepage. Soil log 2A, 168", no mottling, no hydraulically restricted horizon, no seepage. Soil log 45A, 2/24/10, 168", no mottling, no hydraulically restricted horizon, no seepage. Soil log 47A, 2/24/10, 168", no mottling, no hydraulically restricted horizon, no seepage. Permeability test is basin flood 1 @ 144", 2/24/10, passing results. In season groundwater monitoring was done 2/27/10 to 4/17/10, in soil log 47A and 45A, dry results. Reserve area testing was done 1/26/10, in soil log 3A, 168", no mottling, no hydraulically restricted horizon, no seepage. Soil log 46A, 168", no mottling, no hydraulically restricted horizon, no seepage. Soil log 48A, 168", no mottling, no hydraulically restricted horizon, no seepage. Permeability test is basin flood 1 @ 120", 2/24/10, passing results. In season groundwater monitoring was done 2/27/10 to 4/17/10, in soil log 46A and 48A, dry results. The LOI dated 11/9/05, case # 1022-05-0004.1 (FWW-050001). The extension was granted 2/28/11, case # 1022-05-0004.1 (FWW-10001), states that the wetlands on subject property are of intermediate resource value which requires a standard transition area or buffer of 50'. The department has identified state open waters on the property, noted on the referenced plan as state open waters in 3 areas, not associated with wetlands. The state open waters are noted on the reference plan and also between the following wetland points, W35, W52, W19, W51 and W45 to the northern property line. A buffer is not required adjacent to state open waters under the Freshwater Wetlands Act but a riparian zone is required under the Flood Hazard Control Act. Referring to wetlands survey Lot 75, 74, 54 of Block 38 dated 9/29/05, revisions 5/12/04, 2/24/05, 9/29/05. There was a typographical error on 2b for soil log 48A which the engineer will correct.

This motion was seconded by Ms. Albrecht, on roll call vote, the following was recorded:

Ms. Albrecht	Aye	Ms. Muir	Aye	Ms. Simon	Aye
Ms. Butula	Aye	Ms. Rohrbach	Aye	Chair Nugent	Aye

Time heard: 8:30 p.m.

Chair Nugent stated that they would move on to Lot **54.06**.

Mr. Templin stated in the primary field area on proposed Lot **54.06**, soil log 5A was recorded on 1/26/10, depth of 180", there was seepage at 150" with a 24 hour reading of 152", there was no mottling. There was a groundwater reading of 89" during the monitoring period. They are using 89" as the regional zone of saturation in this log. A pit bail was performed in soil log 5A at a depth of 15', K rate of 552. Soil log 8A, also in the primary, was recorded on 1/26/10, depth of 180", there was seepage at 144" with a 24 hour reading of 139". There was a groundwater reading of 91" during the monitoring period, used for the regional zone of saturation in this soil log. Soil log 9, which is close to the other soil logs was performed on 1/17/05, depth of 160", seepage at 130" with a 24 hour reading of 132". There was no mottling, a hard bottom, during the monitoring period the regional zone of saturation was 130", which will be utilized for the design. For the reserve area, soil log 6A, performed on 1/26/10, depth of 156", there was seepage at 120" with a 24 hour reading of 124". There was no mottling, the shallowest groundwater reading was 70" during the monitoring period, the 70" is used for the regional zone of saturation in this soil log. In soil log 6A, a pit bail was done, depth of 13' on 1/26/10, K rate of 346. Soil log 7A, also in the reserve area, was recorded on 1/26/10, depth of 168", there was seepage at 128" with a 24 hour reading of 112". The shallowest groundwater reading was 56" during the monitoring period, used for the regional zone of saturation in this soil log.

Chair Nugent noted that the in-season ground water monitoring has indicated that from 1/2005 to the testing done 2/2010 the elevation of the groundwater was over 3', which proves that that portion of the ordinance provides for substantial data. Ms. Butula stated as does the mottling for historical water rise, because every moment of groundwater cannot be captured. Chair Nugent stated that the in-season also captures the things that haven't mottled yet.

There was some discussion of the witness' recording terminology regarding clarity of indicating the markings for the soil logs being marked as 'near' the soil log rather than 'in' the soil log.

Chair Nugent asked if there were any other questions.

There was no response from the board.

A **MOTION** was made by Ms. Butula for **approval** for proposed Lot **54.06** tested as Lot 1 for a proposed 5 bedroom dwelling, Block 38/Lot 54-74-75; new construction, major subdivision. The map is Onsite Wastewater Disposal Plan for Major Subdivision, Lots 54, 74 and 75, Block 38, Readington Township, Hunterdon County, New Jersey, dated 10/12/06, revisions 6/18/07, 7/25/08, 2/3/09, 12/21/09, 6/25/10, 11/2/10, 5/5/11 prepared by Debra D'Amico, a licensed professional engineer in NJ. The surveyor is Thomas Strong, licensed professional land surveyor, topographical is 3/8/10, dates 5/24/07, 10/20/08, 1/11/10, and 3/8/10. Ferriero Engineering reports are dated 3/30/07, 10/1/07, 11/24/08, 8/20/09, 10/21/10, 11/17/10, 1/10/11, 2/15/11, 4/4/11.

For the primary, testing was performed 1/26/10, soil log 5-A, 180", no mottling, no hydraulically restricted horizon, seepage @ 150", after 24 hours 152". Soil log 8A, @ 180", no mottling, no hydraulically restricted horizon, seepage @ 144", after 24 hours 139". Soil log 9A, 1/17/05, @ 160", no mottling, no hydraulically restricted horizon, seepage 130" and below. Permeability is pit bail 1 in 5A, @ 15", 1/26/10, K 552.48"/hour, in season ground water monitoring was done 2/20/10 – 4/10/10. In soil log 5A the highest was 4/3/10 @ 89"; in soil log 9, 1/17/05 – 3/19/05, @ 130", Soil log 8A, done 2/20/10 – 4/10/10, @ 91", 3/27/10. Regional water for the primary was determined by the monitoring with soil log 5A @ 89" on 4/3/10. Reserve area testing was done 1/26/10, soil log 6A, @ 156", no mottling, no hydraulically restricted horizon, seepage @ 124", in soil log 7A @ 168", with no mottling and seepage @ 112". Permeability is pit bail 1 in 6A, @ 156", 1/26/10, K 346.31"/hour, in season ground water monitoring was done 2/20/10 – 4/10/10. In test pit 6A the high was 70" on 3/27/10, test pit 7A, high was 4/3/10 @ 56". Regional water for the reserve was determined by the monitoring of groundwater with results in test pit 7A on 4/3/10 @ 56". The LOI dated 11/9/05, case # 1022-05-0004.1 (FWW-050001). The extension was granted 2/28/11, case # 1022-05-0004.1 (FWW-10001), states that the wetlands on subject property are of intermediate resource value which requires a standard transition area or buffer of 50'. The department has identified state open waters on the property, noted on the referenced plan as state open waters in 3 areas, not associated with wetlands. The state open waters are noted on the reference plan and also between the following wetland points, W35, W52, W19, W51 and W45 to the northern property line. A buffer is not required adjacent to state open waters under the Freshwater Wetlands Act but a riparian zone is required under the Flood Hazard Control Act. Referring to wetlands survey Lot 75, 74, 54 of Block 38 dated 9/29/05, revisions 5/12/04, 2/24/05, 9/29/05. This motion was seconded by Ms. Albrecht, on roll call vote, the following was recorded:

Ms. Albrecht	Aye	Ms. Muir	Aye	Ms. Simon	Aye
Ms. Butula	Aye	Ms. Rohrbach	Aye	Chair Nugent	Aye

Time heard: 8:50 p.m.

Chair Nugent stated that they would move on to Lot **54.07**.

Mr. Templin stated in the primary field area on proposed Lot **54.07**, primary disposal field is soil log 9A performed on 1/26/10 at , depth of 144", there was seepage at 108" with a 24 hour reading of 107". The groundwater reading was 50" during the monitoring period. They are using 50" as the regional zone of saturation in this log. A pit bail was performed at a depth of 132', K rate of 375"/hour. Soil log 10A, also in the primary, was recorded on 1/26/10, depth of 144", there was seepage at 112" with a 24 hour reading of 108". There was no mottling, a regional groundwater reading was 50" during the monitoring period, which they are using as a regional zone of saturation. Soil log 13, which is close to the other soil logs was performed on 1/17/05, depth of 128", seepage at 90" with a 24 hour reading of 84". There was no mottling, There was a groundwater reading of 84" during the monitoring period. The pit bail done in soil log 13 was performed on 1/18/05, depth of 10'8", K rate of 221"/hour. For the reserve area, soil log 11A, performed on 1/27/10, depth of 140", there was seepage at 105" with a 24 hour reading of 100". There was no mottling, the shallowest groundwater reading was 57" during the monitoring period, the 57" is used for the regional zone of saturation in this soil log. In soil log 11A, a pit bail was done, depth of 11'8" on 1/27/10, K rate of 139. Soil log 21A, also in the reserve area, was recorded on 1/28/10, depth of 140", there was seepage at 110" with a 24 hour reading of 95". The highest groundwater reading was 57" during the monitoring period, used for the regional zone of saturation in this soil log.

Chair Nugent asked if there were any other questions.
There was no response from the board.

A **MOTION** was made by Ms. Butula for **approval** for proposed Lot **54.07** tested as Lot 4 for a proposed 5 bedroom dwelling, Block 38/Lot 54-74-75; new construction, major subdivision. The map is Onsite Wastewater Disposal Plan for Major Subdivision, Lots 54, 74 and 75, Block 38, Readington Township, Hunterdon County, New Jersey, dated 10/12/06, revisions 6/18/07, 7/25/08, 2/3/09, 12/21/09, 6/25/10, 11/2/10, 5/5/11 prepared by Debra D'Amico, a licensed professional engineer in NJ. The surveyor is Thomas Strong, licensed professional land surveyor, topographical is 3/8/10, dates 5/24/07, 10/20/08, 1/11/10, and 3/8/10. Ferriero Engineering reports are dated 3/30/07, 10/1/07, 11/24/08, 8/20/09, 10/21/10, 11/17/10, 1/10/11, 2/15/11, 4/4/11. For the primary, testing was performed 1/26/10, soil log 9-A, 132", no mottling, no hydraulically restricted horizon, seepage @ 107", monitoring of groundwater with results 4/3/10 @ 50", making that the regional. Soil log 10A, @ 180", no mottling, no hydraulically restricted horizon, seepage @ 144", after 24 hours 139". Soil log 9A, 1/17/05, @ 144", no mottling, no hydraulically restricted horizon, seepage 108" and below. Permeability is pit bail 1 in 5A, @ 15", 1/26/10, K 552.48"/hour, in season ground water monitoring was done 2/20/10 – 4/10/10. In soil log 5A the highest was 4/3/10 @ 89"; in soil log 9, 1/17/05 – 3/19/05, @ 130", and groundwater at results @ 50" on 4/3/10. Soil log 13 done 1/17/5, @ 128"with no mottling, no hydraulically restricted horizon, seepage @ 90", after 24 hours, 84". Permeability is pit bail 1 in 13, @ 10.66", 1/18/05, K 221.36"/hour, in season ground water monitoring was done 2/20/10 – 4/10/10. Soil log 9A was performed at a depth of 132' on 4/3/10, reading of 50", soil log 10A was performed at a depth of 135' on 4/3/10, reading of 50". Groundwater readings were done from 1/17/05 – 3/19/05, @ 84" read on 1/18/05. Regional water for the primary was determined by the monitoring with soil log 9A and 10A in the monitoring @ 50" on 4/3/10. For the reserve, testing was done 1/27/10, soil log 11A, @ 140", regional zone of saturation is determined to be 51". Soil log 21A, 1/28/10, @ 140", no mottling, no hydraulically restricted horizon, seepage 110, and 95" after 24 hours. The regional zone of saturation level is determined at 51" on 4/3/10. Permeability is pit bail 11A, @ 11.66' , 1/27/10, K 139.73"/hour. In season ground water monitoring was done 2/20/10 – 4/10/10. Soil log 11A, @ 131", highest reading @ 51" on 4/3/10; soil log 21A , @ 132", highest reading @ 57" on 4/3/10. The regional zone of saturation level is determined at 51" on 4/3/10 in soil log 11A.

The LOI dated 11/9/05, case # 1022-05-0004.1 (FWW-050001). The extension was granted 2/28/11, case # 1022-05-0004.1 (FWW-10001), states that the wetlands on subject property are of intermediate resource value which requires a standard transition area or buffer of 50'. The department has identified state open waters on the property, noted on the referenced plan as state open waters in 3 areas, not associated with wetlands. The state open waters are noted on the reference plan and also between the following wetland points, W35, W52, W19, W51 and W45 to the northern property line. A buffer is not required adjacent to state open waters under the Freshwater Wetlands Act but a riparian zone is required under the Flood Hazard Control Act. Referring to wetlands survey Lot 75, 74, 54 of Block 38 dated 9/29/05, revisions 5/12/04, 2/24/05, 9/29/05. The engineer will submit the corrections to the Form 2b's within 5 business days. The corrections are regarding the 51" level in soil logs 11A and 9A.

The motion was seconded by Ms. Simon, on roll call vote, the following was recorded:

Ms. Albrecht	Aye	Ms. Muir	Aye	Ms. Simon	Aye
Ms. Butula	Aye	Ms. Rohrbach	Aye	Chair Nugent	Aye

Ms. Albrecht excused herself at 9:06 p.m.

Time heard: 9:07 p.m.

Chair Nugent stated that they would move on to Lot **54.08**.

Mr. Templin stated in the primary field area on proposed Lot **54.08**, primary disposal field is soil log 36A, performed on 2/1/10 at a depth of 192", there was seepage at 168" with a 24 hour reading of 172". The highest groundwater reading was 85" during the monitoring period. They are using 85" as the regional zone of saturation. A pit bail was performed at a depth of 192', K rate of 52.92"/hour. Soil log 38A, also in the primary, was recorded on 2/1/10, depth of 192", there was seepage at 192" with a 24 hour reading of 168". There was no mottling, a regional groundwater reading was 102" during the monitoring period, which they are using as a regional zone of saturation. In the reserve area, soil log 35A, which is close to the other soil logs was performed on 2/1/10, depth of 192", seepage at 168" with a 24 hour reading of 160". The shallowest ground water reading was 79" during the monitoring period. The 79" is used for the regional zone

of saturation. The pit bail was performed in soil log 35A at 192", resulting in 31.3"/hour. Soil log 37A in the reserve was performed on 2/1/10, depth of 192", seepage at 192" with a 24 hour reading of 164". The shallowest ground water reading was 80" during the monitoring period which is the regional zone of saturation.

Chair Nugent asked if there were any other questions.

There was no response from the board.

A **MOTION** was made by Ms. Butula for **approval** for proposed Lot **54.08** tested as Lot 5 for a proposed 5 bedroom dwelling, Block 38/Lot 54-74-75; new construction, major subdivision. The map is Onsite Wastewater Disposal Plan for Major Subdivision, Lots 54, 74 and 75, Block 38, Readington Township, Hunterdon County, New Jersey, dated 10/12/06, revisions 6/18/07, 7/25/08, 2/3/09, 12/21/09, 6/25/10, 11/2/10, 5/5/11 prepared by Debra D'Amico, a licensed professional engineer in NJ. The surveyor is Thomas Strong, licensed professional land surveyor, topographical is 3/8/10, dates 5/24/07, 10/20/08, 1/11/10, and 3/8/10. Ferriero Engineering reports are dated 3/30/07, 10/1/07, 11/24/08, 8/20/09, 10/21/10, 11/17/10, 1/10/11, 2/15/11, 4/4/11. For the primary, testing was performed 2/1/10, soil log 36-A, 192", no mottling, no hydraulically restricted horizon, seepage @ 168", after 24 hours 172", monitoring of groundwater with results @ 85", making that the regional. Soil log 38, @ 192", no mottling, no hydraulically restricted horizon, seepage @ 192", after 24 hours 168", monitoring of groundwater with results @ 102", making that the regional. Permeability is pit bail 1 in 36A, @ 16', 2/2/10, K 52.92"/hour, in season ground water monitoring was done 2/20/10 – 4/10/10. In soil log 36A the highest was 4/3/10 @ 85"; in soil log 38A, highest reading was 102" on 3/27/10. Monitoring of groundwater with results @ 85", making that the regional in 36A on 4/3/10.

For the reserve area, testing was done 2/1/10, soil log 35A, @ 192", no mottling, no hydraulically restricted horizon, seepage 168, and 160" after 24 hours. Regional zone is determined by the monitoring @ 79". Soil log 37A also @ 192" no mottling, no hydraulically restricted horizon, seepage 192, and 164" after 24 hours. The regional zone of saturation level is determined by the monitoring at 80". Permeability is pit bail 1 in 35A @ 16', 2/2/10, K 31.32"/hour.

in season ground water monitoring was done 2/20/10 – 4/10/10 in soil log 35A, highest at 79" on 4/3/10. In test hole 37A, highest is 80" on 3/27/10. The regional zone of saturation level is determined at 79" on 4/3/10 in soil log 35A. The LOI dated 11/9/05, case # 1022-05-0004.1 (FWW-050001). The extension was granted 2/28/11, case # 1022-05-0004.1 (FWW-10001), states that the wetlands on subject property are of intermediate resource value which requires a standard transition area or buffer of 50'. The department has identified state open waters on the property, noted on the referenced plan as state open waters in 3 areas, not associated with wetlands. The state open waters are noted on the reference plan and also between the following wetland points, W35, W52, W19, W51 and W45 to the northern property line. A buffer is not required adjacent to state open waters under the Freshwater Wetlands Act but a riparian zone is required under the Flood Hazard Control Act. Referring to wetlands survey Lot 75, 74, 54 of Block 38 dated 9/29/05, revisions 5/12/04, 2/24/05, 9/29/05.

The motion was seconded by Ms. Simon, on roll call vote, the following was recorded:

Ms. Albrecht	Aye	Ms. Muir	Aye	Ms. Simon	Aye
Ms. Butula	Aye	Ms. Rohrbach	Aye	Chair Nugent	Aye

Time heard: 9:17 p.m.

Chair Nugent stated that they would move on to Lot **54.09**.

Mr. Templin stated in the primary field area on proposed Lot **54.09**, the disposal field is soil log 32A, performed on 2/1/10 at a depth of 153", there was seepage at 132" with a 24 hour reading of 126". The highest groundwater reading was 49" during the monitoring period. They are using 49" as the regional zone of saturation. A pit bail was performed in soil log 32A at a depth of 153', K rate of 62.1"/hour. Soil log 33A, also in the primary, was recorded on 2/1/10, depth of 153", there was seepage at 132" with a 24 hour reading of 128". The highest groundwater reading was 59" during the monitoring period. They are using 59" as the regional zone of saturation. In the reserve area, soil log 31A, which is close to the other soil logs was performed on 2/1/10, depth of 144", seepage at 120" with a 24 hour reading of 117". The height of 49" during the groundwater monitoring period will be used as the regional zone of saturation. The pit bail was performed in soil log 31A at 144", resulting in K 563"/hour. Soil log 34A in the reserve was performed on 2/1/10, depth of 144", seepage at 132" with a 24 hour reading of 120". The highest groundwater reading was 43" which they are utilizing as the regional zone of saturation for this soil log.

Chair Nugent asked if there were any other questions.

There was no response from the board.

A **MOTION** was made by Ms. Butula for **approval** for proposed Lot **54.09** tested as Lot 6 for a proposed 5 bedroom dwelling, Block 38/Lot 54-74-75; new construction, major subdivision. The map is Onsite Wastewater Disposal Plan for Major Subdivision, Lots 54, 74 and 75, Block 38, Readington Township, Hunterdon County, New Jersey, dated 10/12/06, revisions 6/18/07, 7/25/08, 2/3/09, 12/21/09, 6/25/10, 11/2/10, 5/5/11 prepared by Debra D'Amico, a licensed professional engineer in NJ. The surveyor is Thomas Strong, licensed professional land surveyor, topographical is 3/8/10, dates 5/24/07, 10/20/08, 1/11/10, and 3/8/10. Ferriero Engineering reports are dated 3/30/07, 10/1/07, 11/24/08, 8/20/09, 10/21/10, 11/17/10, 1/10/11, 2/15/11, 4/4/11. For the primary, testing was performed 2/1/10, soil log 32-A, 153", no mottling, no hydraulically restricted horizon, seepage initially @ 132", after 24 hours 126", monitoring of groundwater with results @ 49", making that the regional. Soil log 33A, @ 153", no mottling, no hydraulically restricted horizon, seepage @ 132", after 24 hours 128", monitoring of groundwater with results @ 59", making that the regional. Permeability is pit bail 1 in 32A, @ 12.75', 2/2/10, K 62.13"/hour, in season ground water monitoring was done 2/20/10 – 4/10/10. In test hole 32A the highest was 4/3/10 @ 49"; test hole 33A in soil log 33A, the pipe was put in to a depth of 145" highest reading was 59" on 4/3/10. Monitoring of groundwater with results @ 49", making that the regional in 32A on 4/3/10. For the reserve, testing was done 2/1/10, soil log 31A, @ 144", no mottling, no hydraulically restricted horizon, seepage 120, and 117" after 24 hours. Regional zone is determined by the monitoring @ 49" on 3/27/10. Soil log 34A also @ 144", no mottling, no hydraulically restricted horizon, seepage 132, and 120" after 24 hours. The regional zone of saturation level is determined by the monitoring at 43", result from 3/20/10.

The permeability is pit bail 1 in 31A @ 12', 2/2/10, K 563.94"/hour. The in season ground water monitoring was done 2/20/10 – 4/10/10 in soil log 31A, highest at 49" on 3/27/10. In test hole 34A, highest was 43" on 3/20/10. The regional zone of saturation level is determined at 43" on 3/20/10 in soil log 34A. The LOI dated 11/9/05, case # 1022-05-0004.1 (FWW-050001). The extension was granted 2/28/11, case # 1022-05-0004.1 (FWW-10001), states that the wetlands on subject property are of intermediate resource value which requires a standard transition area or buffer of 50'. The department has identified state open waters on the property, noted on the referenced plan as state open waters in 3 areas, not associated with wetlands. The state open waters are noted on the reference plan and also between the following wetland points, W35, W52, W19, W51 and W45 to the northern property line. A buffer is not required adjacent to state open waters under the Freshwater Wetlands Act but a riparian zone is required under the Flood Hazard Control Act. Referring to wetlands survey Lot 75, 74, 54 of Block 38 dated 9/29/05, revisions 5/12/04, 2/24/05, 9/29/05.

The motion was seconded by Ms. Simon, on roll call vote, the following was recorded:

Ms. Butula	Aye	Ms. Rohrbach	Aye	
Ms. Muir	Aye	Ms. Simon	Aye	Chair Nugent Aye

Time heard: 9:25 p.m.

Chair Nugent stated that they would move on to Lot **54.10**.

Mr. Templin stated in proposed Lot **54.10**, the primary area is soil log 17A performed on 1/27/10 to a depth of 148", seepage at 132", the 24 hour reading was 120". During the monitoring period the groundwater reading was 79", which is used as the regional zone of saturation. Soil log 18A, done 1/27/10 to a depth of 132", seepage at 96", the 24 hour reading was 88", the high groundwater reading was 65", which is used as the regional zone of saturation. Pit bail was performed at 132", results of 85"/hour. In the reserve area, soil log 43A, performed on 2/3/10, to a depth of 132", seepage was 96", 24 hour reading of 94", highest groundwater reading was 31" during the monitoring period which would be used as the regional zone of saturation. A pit bail was performed at 11', the K rate was 177"/hour. Soil log 44A in the reserve area was performed on 2/3/10, depth of 144", seepage was observed at 132", with a 24 hour reading of 128", the shallowest ground water reading was 82" during the monitoring period which is used as the regional zone of saturation for this log. In the reserve area due to the depth of the regional zone of saturation of 31", a pump will be required. The distance for 112 is about 12'.

There was some discussion of the 12' distance on lot 54.10.

Mr. Templin stated soil log 112 was performed on 2/27/08, to a depth of 148", seepage was encountered at 90" with a 24 hour reading of 64". The highest recorded reading was 48" on 3/15/08 and 3/21/08. Pit bail was performed at 112", the result was 42"/hour K rate on 2/27/08. Soil log 111 was performed on 2/27/08, depth of 144", seepage was observed at 100", 24 hour reading of 78", the highest groundwater reading was recorded on 3/15/08 and 3/21/08, at a depth of 74", which is the regional zone of saturation for this soil log. The reserve will require a pump.

Chair Nugent stated that if the reserve were used, the applicant would have to return to this board for that approval.

Chair Nugent asked if there were any other questions.

There was no response from the board.

A **MOTION** was made by Ms. Butula for **approval** for proposed Lot **54.10** tested as Lot 7 for a proposed 5 bedroom dwelling, Block 38/Lot 54-74-75; new construction, major subdivision. The map is Onsite Wastewater Disposal Plan for Major Subdivision, Lots 54, 74 and 75, Block 38, Readington Township, Hunterdon County, New Jersey, dated 10/12/06, revisions 6/18/07, 7/25/08, 2/3/09, 12/21/09, 6/25/10, 11/2/10, 5/5/11 prepared by Debra D'Amico, a licensed professional engineer in NJ. The surveyor is Thomas Strong, licensed professional land surveyor, topographical is 3/8/10, dates 5/24/07, 10/20/08, 1/11/10, and 3/8/10. Ferriero Engineering reports are dated 3/30/07, 10/1/07, 11/24/08, 8/20/09, 10/21/10, 11/17/10, 1/10/11, 2/15/11, 4/4/11. For the primary, testing done on 1/27/10, soil log 17A, @ 148", no mottling, no hydraulically restricted horizon, seepage initially @ 132", after 24 hours 120", monitoring of groundwater with results @ 56", making that the regional determined on 2/27/10. Soil log 18A, @ 132", no mottling, no hydraulically restricted horizon, seepage @ 96", after 24 hours 88", monitoring of groundwater with results @ 65", on 3/27/10, making that the regional. Permeability is pit bail 1 in 18A, @ 11', 2/27/10, K 85.83"/hour, in season ground water monitoring was done 2/20/10 – 4/10/10. In test pit 18A the highest was 3/27/10 @ 65"; test hole 17A in soil log 17A, the pipe was put in to a depth of 133" highest reading was 56" on 2/27/10. Monitoring of groundwater with results @ 56", making that the regional in 17A on 2/27/10. For the reserve, testing was done 2/3/10, soil log 43A, @ 132", no mottling, no hydraulically restricted horizon, seepage 96", and 94" after 24 hours. Regional zone is determined by the monitoring @ 31" on 4/3/10. Soil log 44A also @ 144", no mottling, no hydraulically restricted horizon, seepage 132, and 128" after 24 hours. The regional zone of saturation level is determined by the monitoring at 83", result from 4/3/10. Soil log 111, on 2/27/08, @ 144", no mottling, no hydraulically restricted horizon, seepage @ 100", after 24 hours 78", regional zone is determined by monitoring with the highest level @ 74" on 3/15/ and 3/21/08, in season ground water monitoring was done 3/1/08 – 4/20/08. The permeability is pit bail 1 in 43A @ 11', 2/3/10, K 177.45"/hour. The in season ground water monitoring was done 2/20/10 – 4/10/10 in test hole 43A, highest at 31" on 4/3/10. In test hole 44A, highest was 82" on 4/3/10. Soil log 112, done 2/27/08, @ 144", no mottling, no hydraulically restricted horizon, seepage initially @ 90", after 24 hours 64", the regional zone was 48" determined by monitoring on 3/15/08 and 3/21/08. Pit bail 1 in 112, @ 9.33', 2/27/08, K 42.23"/hour. The in season ground water monitoring was done 3/1/08 – 4/20/08 in test hole 43A, highest at 48" on 3/15/08 and 3/21/08. For the reserve area, the regional groundwater is determined by monitoring, 31" in test hole 43A on 4/2/10.

The motion was seconded by Ms. Muir, on roll call vote, the following was recorded:

Ms. Butula	Aye	Ms. Rohrbach	Aye	
Ms. Muir	Aye	Ms. Simon	Aye	Chair Nugent Aye

Chair Nugent stated that 54.11 would be heard at next months' meeting, and they would now move on to 54.12.

Time heard: 10:00 p.m.

Mr. Templin stated in the primary field area on proposed Lot **54.12**, the disposal field is soil log 106, performed on 2/25/08 at a depth of 144", there was no seepage, the 24 hour reading was 126". The shallowest groundwater reading was observed on 3/9/08 and 3/15/08 and 3/21/08 at 92". They are using 92" as the regional zone of saturation. Soil log 107 is also in the primary, performed on 2/25/08, depth of 144", seepage at 84", 24 hour reading of 90". The shallowest groundwater reading was on 3/15/08 and 3/21/08 at 78", used as the regional zone of saturation for this soil log. A pit bail was performed at a depth of 144", on 2/26/08, K rate of 0.87"/hour. In the reserve area, soil log 108, performed on 2/25/08, depth of 144", there was seepage at 70", with a 24 hour reading of 67". The highest groundwater reading was 67" during the monitoring period. The pit bail was performed in soil log 108 at 108" on 2/26/08, K rate of 33"/hour. In the reserve area is soil log 109 performed on 2/25/08, depth of 144", seepage was observed at 132" with a 24 hour reading of 120". The highest seasonal groundwater reading was 3/15/08 and 3/21/08 at 84" for a regional zone of saturation at 84". There is no pumping required.

Chair Nugent asked if there were any other questions.

There was no response from the board.

A **MOTION** was made by Ms. Butula for **approval** for proposed Lot **54.12** tested as Lot 9 for a proposed 5 bedroom dwelling, Block 38/Lot 54-74-75; new construction, major subdivision. The map is Onsite Wastewater Disposal Plan

for Major Subdivision, Lots 54, 74 and 75, Block 38, Readington Township, Hunterdon County, New Jersey, dated 10/12/06, revisions 6/18/07, 7/25/08, 2/3/09, 12/21/09, 6/25/10, 11/2/10, 5/5/11 prepared by Debra D'Amico, a licensed professional engineer in NJ. The surveyor is Thomas Strong, licensed professional land surveyor, topographical is 3/8/10, dates 5/24/07, 10/20/08, 1/11/10, and 3/8/10. Ferriero Engineering reports are dated 3/30/07, 10/1/07, 11/24/08, 8/20/09, 10/21/10, 11/17/10, 1/10/11, 2/15/11, 4/4/11. For the primary, testing was performed 2/25/08, soil log 106, @ 144", no mottling, no hydraulically restricted horizon, seepage initially @ 126", after 24 hours monitoring of groundwater with results @ 92", from 3/9/08 – 3/21/08 making that the regional. Soil log 107, @ 144", no mottling, no hydraulically restricted horizon, seepage @ 84", after 24 hours 90", monitoring of groundwater with results @ 78", on 3/15/08 and 3/21/08, making that the regional. Permeability is pit bail 1 in 107, @ 12', 2/26/08, K 0.87"/hour, in season ground water monitoring was done 3/1/08 – 4/20/08. In test hole 106, the pipe was installed to a depth of 144", the highest was done 3/1/08 – 4/20/08 @ 144"; the highest reading was 92" from 3/9/08 – 3/21/08. In test hole 107 the highest was 78" from 3/15/08 – 3/21/08. The primary was determined by monitoring, the regional zone was determined by monitoring at 78" in test hole 107 from 3/15/08 – 3/21/08. For the reserve area, testing was done 2/25/08, soil log 108, dug to 144", no mottling, no hydraulically restricted horizon, seepage 75", and 67" after 24 hours. Regional zone is determined by the monitoring @ 67" on 2/25/08. Soil log 109, @ 144" no mottling, no hydraulically restricted horizon, seepage 132", and 120" after 24 hours. Monitoring of groundwater with results @ 84", 3/15/08, 3/21/08 making the regional 67" with the seepage in soil log 108. The permeability is pit bail 1 in 108, 2/26/08, K 33.45"/hour. The in season ground water monitoring was done 3/1/08 – 4/20/08 in test hole 108, pipe installed to 139", highest at 75" on 3/15/08 – 3/21/08. In test hole 109, highest was 141" on 3/20/10. The regional zone of saturation level is determined at 84" on 3/15 and 3/21/08. The groundwater for the entire reserve area, the regional zone is determined by the logs and it would be soil log 108 with the seepage at 67". The LOI dated 11/9/05, case # 1022-05-0004.1 (FWW-050001). The extension was granted 2/28/11, case # 1022-05-0004.1 (FWW-10001), states that the wetlands on subject property are of intermediate resource value which requires a standard transition area or buffer of 50'. The department has identified state open waters on the property, noted on the referenced plan as state open waters in 3 areas, not associated with wetlands. The state open waters are noted on the reference plan and also between the following wetland points, W35, W52, W19, W51 and W45 to the northern property line. A buffer is not required adjacent to state open waters under the Freshwater Wetlands Act but a riparian zone is required under the Flood Hazard Control Act. Referring to wetlands survey Lot 75, 74, 54 of Block 38 dated 9/29/05, revisions 5/12/04, 2/24/05, 9/29/05.

The motion was seconded by Ms. Muir, on roll call vote, the following was recorded:

Ms. Butula	Aye	Ms. Rohrbach	Aye	
Ms. Muir	Aye	Ms. Simon	Aye	Chair Nugent Aye

Chair Nugent stated that the remaining lots, 54.01 and 54.11 would most likely be heard at the next meeting.

Ms. Butula stated that the engineer should take into account that there will be a presentation at next months' meeting by the board engineer, so that will account for some time at the beginning of the meeting.

Chair Nugent asked if there were any other matters before the board this evening?

Mr. Colburn addressed the board with concerns regarding lyme disease, particularly if a physician or lab is required to report whether or not a tick tests positive for lyme.

Ms. Butula stated that she would look into it.

G. ADJOURNMENT

A **MOTION** was made by Ms. Muir to adjourn at 10:30 pm, seconded by Ms. Rohrbach with a vote of Ayes all, Nays, none recorded.

Respectfully submitted:

Lorraine Petzinger
Board of Health Secretary