

Administrator's Report
Board of Health Meeting of July 23, 2020
Report covers from 06-30 – 07-22-2020
Items requiring Board vote are noted with an asterisk ()*

A. Inspection Report Reviews

- (1) 8 Pine Ridge Road, Albani, Map 147, Lot 24*

I have reviewed the Title 5 report for the inspection at this property, conducted by Gerardo Valentin on June 16, 2020. The inspector has noted that the system is functioning as intended.

Recommendation: I recommend the Board of Health send a letter to the property owner stating we are in agreement with the determination of the inspector, Gerardo Valentin, that the system passes the official Title 5 inspection conducted on June 16, 2020.

- (2) 140 Main Street, Coughlin, Map 136, Lot 8*

awaiting revised report

- (3) 4 Deer Hill Farms Road, Carroll, Map 115, Lot 8*

I reviewed the report for the official Title 5 inspection conducted at this property by Jon Granz on June 24, 2020. The inspector has noted that the distribution box was replaced after the inspection and that the system is now functioning as designed.

Recommendation: I recommend the Board of Health send a letter to the property owner stating we are in agreement with the determination of the inspector Jon Granz and that the system passes the official Title 5 inspection conducted on June 24, 2020. The inspector noted that the septic tank has a Zabel filter installed in the outlet tee, and this filter should be cleaned at least once per year.

- (4) 194 Southern Avenue, McPherson, Map 209, Lot 1*

I reviewed the report for the official Title 5 inspection conducted at this property by Randy Burley on June 7, 2020. The inspector noted that the system, serving a 2 bedroom, single family cottage on the property, is only 84' from the drinking water well serving both dwellings on the property, the water quality analysis indicates the system is not interfacing with the water table. The system is otherwise functioning as intended. The inspector noted in separate correspondence that the system serving the main dwelling on the property failed a Title 5 inspection and the owner is proceeding with upgrading that system to bring the entire facility into full compliance.

Recommendation: I recommend the Board of Health send a letter to the property owner stating we are in agreement with the determination of the inspector Randy Burley and that the system passes the official Title 5 inspection conducted on June 7, 2020.

B. Soil Evaluations / Waiver Explorations

- (1) 89 John Wise Avenue, Costello, Map 113, Lot 7

I witnessed soil testing performed by John Judd as the first step in upgrading the failed system at this property.

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(2) 194 Southern Avenue, McPherson, Map 209, Lot 1*

I witnessed soil testing, performed by Randy Burley, as the first step in upgrading the failed septic system at this property.

B. Septic System Design Plan Reviews

(1) 6 Town Farm Road, Bryer, Map 110, Lot 12*

I have reviewed the plan for the proposed tight tank at this property, designed by John Judd and dated June 4, 2020. During the review, the following technical deficiencies or errors were noted:

1. There is no detail describing how the ESHWT was determined to be at elevation 13.2'.
2. The buoyancy calculations need to assume the ESHGWT is at existing grade since a test pit was not conducted in the proposed tight tank location (EDS 100.3.1).
3. A capped 4" PVC outlet pipe is required (EDS 300.1.1 & EDS 300.2.1(3)).
4. Considering the limited space from the dwelling to the side property lines (12' and 13'), please confirm a SHEA concrete truck will have adequate access for tank delivery.

Recommendation: I recommend the Board of Health send a letter to the property owner stating the plan for the tight tank designed by John Judd and dated June 4, 2020 is disapproved for the reasons mentioned above.

(2) 0 Spring Street, Little, Map 121, Lot 1*

I have reviewed the plan for the proposed septic system for this property, designed by John Morin and dated June 29, 2020. During the review, the following technical deficiencies or errors were noted:

1. The full legal boundaries of the lot were not shown on the design plan (310 CMR 15.220(4)(a)).
2. A benchmark needs to be located within 50-75 feet of the proposed system (310 CMR 15.220(4)(q)).
3. The pipe diameters and schedules were not depicted for the building sewer pipe, pipe between the septic tank and pump chamber and pipe between the distribution box and leach trenches (310 CMR 15.222(1&3)).
4. Notes need to be added to the design plan to indicate the building sewer pipe will have watertight joints, laid on compact firm base, and laid on a continuous grade in straight line (310 CMR 15.222(3,4,5,7)(EDS 400.3.2)).
5. A note needs to be added to the design plan to indicate all non-leach lines shall be tested for watertightness if within 6" of ESHGWT (EDS 500.3.1).
6. A note needs to be added to the design plan to indicate the maintenance requirement for the proposed effluent filter (310 CMR 15.227(7)).
7. The design plan did not indicate the center manhole of the septic tank and pump chamber shall be permanently sealed (EDS 100.2.1).
8. The material of the risers and access covers above the septic tank and pump chamber were not depicted.
9. Please indicate if the septic tank is designed for H-10 or H-20 vehicle loading capacity (310 CMR 15.226(3), EDS 100.2.1&3.1).

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10. Please confirm the proper constants were used in the buoyancy calculations for the septic tank and pump chamber (EDS 100.3.1).
11. Confirm if the proposed pump meets the requirement of passing 3/4" solids handling (EDS 1100.2).
12. A note needs to be added to the design plan to indicate the alarm is on a separate circuit from the pump (310 CMR 15.231(9)).
13. The vent should be protected from animal entry (310 CMR 15.241(1)(b)).
14. The slope of the trench piping appears to be slightly below (0.0049) the required minimum slope of 0.005 (310 CMR 15.251(9)).
15. Please indicate what the building sewer in the garage will be serving. This will also be confirmed during the building plan review prior to sign off of the building permit application.
16. On sheet 2 of 3, the leach trench detail depicts the incorrect trench length.
17. On sheet 3 of 3, the cross-section A-A appears to depict the trenches at the incorrect elevations based on the schedule of inverts.
18. On sheet 3 of 3, the system profile depicts the incorrect length of trench #2.

Recommendation: I recommend the Board of Health send a letter to the property owner stating the proposed plan, designed by John Morin and dated June 29, 2020 is disapproved for the reasons outlined above.

(3) 210 Southern Avenue, Nally, Map 209, Lot 13.1*

I have reviewed the plan for the proposed septic system for this property, designed by Vernon LeBlanc and dated June 4, 2020. During the review, the following technical deficiencies or errors were noted: On sheet 1 of 2, indicate whether the proposed driveway surface will be impervious or not (310 CMR 15.220(4)(d)). Also more detail of the proposed driveway should be added to the design plan since the driveway is depicted near the tank locations.

19. A north arrow was missing from the design plan (310 CMR 15.220(4)(g)).
20. Notes need to be added to the design plan to indicate the setbacks are met from surface water supplies, public wells and other private wells (310 CMR 15.220(4)(k)).
21. Notes need to be added to the design plan to indicate the building sewer pipe will have watertight joints, laid on compact firm base, and laid on a continuous grade in straight line (310 CMR 15.222(3,4,5,7)(EDS 400.3.2)).
22. The design plan did not depict the waterline from the well to the dwelling (310 CMR 15.220(4)(m)).
23. The design plan did not contain the designer's certification statement (EDS 600.3.5).
24. A note needs to be added to the design plan to indicate all non-leach lines shall be tested for watertightness if within 6" of ESHGWT (EDS 500.3.1).
25. On sheet 1 of 2, to ensure the installer provides the proper cover material above the septic tank, pump chamber and distribution, proposed finish spot elevations should be provided on the site plan view.
26. The design plan did not indicate the center manhole of the septic tank shall be permanently sealed (EDS 100.2.1).
27. Manhole covers are required to be set higher slightly than surrounding grade (EDS 100.2.1).
28. The buoyancy calculations need to assume the ESHGWT is at existing grade since a test pit was not conducted in the proposed location of the tanks (EDS 100.3.1).

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29. A note is required to indicate the watertightness requirements for the septic tank and pump chamber (EDS 500.3.2).
30. A note should be added to the design plan to indicate the pump chamber tank shall be watertight (310 CMR 15.221(1)).
31. A note should be added to the design plan to indicate the maintenance requirement for the proposed effluent filter (310 CMR 15.227(7)).
32. On sheet 1 of 2, the detail of the proposed distribution box did not include the manufacturer, model number and dimensions.
33. On sheet 1 of 2, the pump chamber detail did not indicate the elevations of the pump floats (310 CMR 15.220(4)(r)).
34. Confirm if the proposed pump meets the requirement of passing 3/4" solids handling, has integrated overload protection, 10 starts per hour (EDS 1100.2).
35. A note needs to be added to the design plan to indicate the pump controls will be lockable (EDS 1100.2).
36. The alarm equipment needs to be specified (310 CMR 15.231(2)).
37. A note needs to be added to the design plan to indicate the alarm is on a separate circuit from the pump (310 CMR 15.231(9)).
38. A note needs to be added to the design plan to indicate the finished grade above the leach field will have a minimum slope of 2.0% (310 CMR 15.240(10)).
39. In accordance with the DEP Standard Conditions for Alternative SAS for the Infiltrator Chamber system the following items shall be confirmed, depicted and provided:
 - a. For new construction or increases in flow, the System shall be subject to the following: The record drawings, approved by the LAA, must clearly indicate an area for a full- sized conventional primary SAS and a full-sized conventional reserve area that are for the sole purpose of on-site sewage disposal;
40. Upon submission of an application for a Disposal System Construction Permit (DSCP), the Designer shall provide to the Local Approving Authority:
 - a. proof that the Designer has satisfactorily completed any required training by the Company for the design and installation of the Technology;
 - b. certification by the Designer that the design conforms to the Approval, any Company Design Guidance, and 310 CMR 15.000; and
 - c. a certification, signed by the Owner of record for the property to be served by the Technology, stating that the property Owner:
 - i. has been provided a copy of the Title 5 I/A technology Approval, the Owner's Manual, and the Operation and Maintenance Manual, and the Owner agrees to comply with all terms and conditions;
 - ii. if the design does not provide for the use of garbage grinders, the restriction is understood and accepted; and
 - iii. whether or not covered by a warranty, the System Owner understands the requirement to repair, replace, modify or take any other action as required by the Department or the LAA, if the Department or the LAA determines the

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System to be failing to protect public health and safety and the environment, as defined in 310 CMR 15.303.

Recommendation: I recommend the Board of Health send a letter to the property owner stating the plan for the proposed septic system at this property, designed by Vernon LeBlanc and dated June 4, 2020 is disapproved for the reasons outlined above.

(4) 3 Sheas Court, Isaac, Map 145, Lot 32*

I have reviewed the plan for the proposed septic system at this property, designed by George Zambouras with a final revision date of June 17, 2020. I have noted that the designer has made all necessary corrections, and the septic design now meets all state and local requirements for Title 5.

Recommendation: I recommend the Board of Health send a letter to the property owner stating the plan for the proposed septic system at this property, designed by George Zambouras and with a final revision date of June 17, 2020 is approved. The letter should also note that the as-built drawing needs to include the updated map and lot number.

D. Septic System Installations/Abandonments (informational only)

(1) 89 John Wise Avenue, Costello, Map 113, Lot 7

I inspected the bottom of the leaching area, as well as the bottom of the hole for the septic tank/pump chamber combo at this property.

(2) 80 Pond Street, Stavros, Map 154, Lot 47

I inspected the bottom of the installation of the new septic system at this property.

G. Complaints/Other

- (1) We continue to receive complaints regarding lack of social distancing, lack of face coverings, and access to Centennial Grove and Conomo Point being too crowded and/or limited to residents only. Complaints pertaining to COVID-19 mandates are addressed with a phone call or visit to the establishment at the time of the complaint. Establishments continue to be monitored and are doing their best to be compliant with the multitude of safety and public health regulations.

G. COVID-19 Updates

(1) Case Count

As of 7/23/2020, Essex has had 25 confirmed positive cases; our webpage is updated with current information when we receive notification of new cases.

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