

# Russell Inspection Services

Residential/Commercial/Industrial

## Septic System Evaluation



Prepared for: John Smith

Property address: 123 Main St. Anytown NH

Eval. Date: 4/21/2012

Tel: 603-123-4567

Mail Address: Anytown NH

Email: youraddress@XXX.com

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Access to house provided by: Realtor

Where plans provided by seller/agent? Obtained from Farmington Building Department.

Approval # NH DES # CAxxxxxxxxx

Prior backup noticed: None

Any repairs: None

Age of dwelling: 9

Number of bedrooms: 3 Vacant: Yes How long: Minimum 6 Months

Age of system: 9

# of occupants: Unknown

Seasonal or year round use: Year round

Appliances: Clothes washer: X Dish washer: X Garbage disposal: No

Hot tub: No

Water conditioner: No

Water supply: Private well: X

Dug:

Drilled: X

Tank last cleaned: Unknown

Notes/comments:

The system, as installed is consistent with the plan on file with the town of Farmington. This system consists of a 1250 gallon concrete treatment tank with a fabric based Enviro-Septic EDA (effluent disposal area). The EDA is a serial type system made up of 6, 30-foot long pipes and is vented. The treatment tank and EDA are located to the left side of the home. There is a cracked cover over the outlet side of the tank (23'') and the effluent filter is missing from the outlet baffle. The tank should be pumped as soon as possible and subsequently every two years thereafter.

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## Septic Tank:

Location: Left side of home.

Is tank within 6in. of grade: Yes                      Riser needed: No

Concrete: X              Steel:              Other:              #gallons: 1250

Inlet Baffle: PVC                      Condition: Good

Liquid level of inlet: Bottom of invert              Liquid level at outlet: Same

Outlet Baffle: PVC                      Condition: Good

Height of staining in tank from invert: 1/3 from bottom of invert

Does tank need cleaning: Yes

Filter: In tank: Missing

## Effluent Disposal Area (EDA)

Location: Left side of home

Depth to top: 24 inches

Surface conditions: (Normal)

EDA Type: Fabric based Enviro-Septic, Serial.

# Of observations holes dug: 3

Location of holes: # 1 @ beginning of EDA. # 2 @ end of EDA. # 3 right side of EDA on slope.

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D-Box opened. No D-B-x with this system.

Level of effluent in each hole: #1, 1/3 from bottom of lateral. # 2 Dry.  
# 3, wet but no standing effluent.

Level of staining in each hole: #1, APP. 20'' up from bottom of inspection hole. #2, No staining. # 3, throughout most of the inspection hole.

Back fill clean: (Yes) Stones or EDA construction material clean: Yes

Vented: Yes

Quality of backfill: Clean sand

Any concerns of roof drains or street/driveway runoff. None

Any obvious wetlands, surface water, intermediate runoff within 75'' of EDA that may not allow future replacement without waivers: Yes, wetlands near property.

System condition: Good

Comments/Conclusions:

During my inspection I conducted a flow test with septic dye. I ran approximately 225 gallons of water through the homes plumbing system, out to the treatment tank and on to the EDA. After about 40 minutes I began to see effluent rise in inspection hole # 1. The level of effluent reached about 1/3 of the way up the pipe and did not rise higher. I did observe some of the grass in this area is somewhat greener and taller than the rest of the area. I then dug inspection hole # 3 to the right of inspection hole # 1 and on the downward slope of the EDA. I found staining and wet material throughout this inspection hole, which indicates absorption in this part of the EDA, is higher than the rest of the EDA. This is typical for a serial system. Inspection hole # 2, located at the end of the EDA and in front of the vent, had no staining and remained dry throughout the hydraulic load test. I found the system to be functioning as intended and did not observe any breakout or backups.

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View of the EDA



Treatment tank location



Cracked cover, 23''



Missing effluent filter



Inspection hole #1 pre load test



Inspection hole #2 post load test



Effluent has risen 1/3 up from the bottom of the lateral.

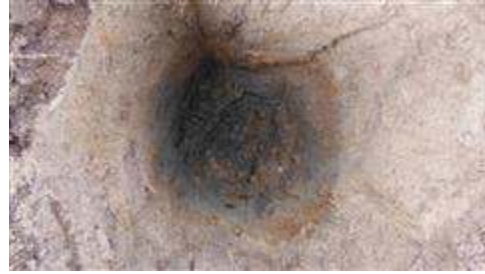
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Inspection hole #2, remained dry



Inspection hole #3, note staining



Inspection hole #3, on downward slope



Absorption is higher in this area



Absorption is higher in this area



Absorption is higher in this area



The last four images were taken to the right of inspection hole # 1, which is at the beginning of the EDA and directly in front of the treatment tank. Higher absorption at the beginning of a serial system is common.

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## Recommendations:

1. Treatment tank should be pump as soon as possible and subsequently every two years thereafter.
2. Replace cracked treatment tank cover.
3. Install new effluent filter in outlet baffle.
4. Maintain system and be aware of daily water consumption and usage.  
(Normal recommendation for any system)

This evaluation is useful in determining the general condition of the system and is not intended to predict how long the system will continue to function. The report is based upon observations and conditions that existed only at the time of the evaluation and must be construed as an opinion. Therefore, conclusions reached and system longevity cannot be guaranteed due to unforeseen conditions or information that was not provided or available at the time of inspection, such as, but not limited to, multiple septic systems on the property, whether active or abandoned. The inspection of the septic system is limited to readily visible accessible components. This evaluation is based primarily on a water flow test and conditions visually apparent at the grounds surface and through holes dug. Vacancy, limited use of the system, overgrowth of the EDA (effluent disposal area) frozen ground conditions, soil conditions, depth of system components and snow cover can severely restrict the ability to access system components.

The information and conclusions in this report are the opinion of the inspector based on his current knowledge at the time of the inspection.

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PO Box 191 Alton Bay, NH 03851 603-740-4062

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