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Soil Science Services
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To: Mr. Marty Hendricks
Hendricks Builders

From: Patrick L. Mitchell
Soil Scientist

Date: September 14, 2013

Subject: **Fast Track Soil & System Information**
Lot #20 – Donsdale Subdivision
Parcel Number: 4747-65-2319
Iredell County, North Carolina

Dear Mr. Hendricks:

A site and soil evaluation has been conducted on the above referenced parcel in Iredell County, North Carolina. The following report contains a summary of the site and soil evaluation findings and the proposed onsite wastewater treatment and disposal system (system) design. The purpose of this site and soil evaluation was to provide information necessary for fast track permitting through Iredell County Environmental Health.

All soil ratings and system design work were determined in accordance with the North Carolina Department of Health and Human Services (NC-DHHS) laws and rules regulating subsurface onsite wastewater treatment systems [15A NCAC 18A .1900].

Background

The site (Lot #20) consists of approximately 0.93 acres and is located inside Donsdale Subdivision. It was indicated that the desired house (4-bedroom single family residence) placement would be approximately 35 feet from the front of the lot. On September 11, 2013, four (4) soil hand auger borings were dug on the parcel (see Figure 1). The soil borings were advanced to a depth of 48 inches. On September 12, 2013 the proposed initial system and repair system were field flagged.

Results and Discussion

The soils evaluated were described as suitable for septic system permitting through Iredell County Environmental Health and/or NC-DHHS. The overall long term acceptance rate (LTAR) in the investigated areas of Lot #20 is 0.30 gallons per day per foot square (see attached soil evaluation form). Lot topography consists of a uniform linear side slope landscape position with a 2 to 6% slope falling east to west. There is sufficient available space and suitable soil to support the proposed four (4) bedroom single family residence with the provided house dimensions (see Figure 1).

The proposed initial system is a gravity fed 25% reduction system, consisting of four (4) 100 linear-foot drain lines with equal distribution via a distribution box with speed levelers. The proposed repair reserve system would also be a 25% reduction system. However, pump distribution will be required for most of the proposed repair system. The maximum trench bottom depth for both the initial and repair system is 36 inches.

Closing

This report identifies the location of suitable soil borings and the location/design for an initial system and repair system to serve the above described single family residence, and does not represent a septic system permit. Laws and regulations pertaining to permitting onsite wastewater treatment systems are subject to change. This report does not constitute or imply approval for permit, as required by North Carolina state law and regulations. Only the local health department can issue these permits. An application must be made to the Iredell County Health Department for each individual septic system.

I appreciate this opportunity to provide Soil Scientist services to you. Please call me at (704) 437-3518 if you or the Iredell County fast track reviewer have any questions concerning this report or need any additional information.

Respectfully submitted,

Patrick L. Mitchell, REHS, LSS
NC Licensed Soil Scientist



Enc: *Proposed Septic for Lot #20 (Figure 1)*
Soil Evaluation Form

cc: *Iredell County Environmental Health*