



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, NC 27587
919-569-6704/fax 919-569-6703

August 19, 2019

Andrew Currin
Harnett County Environmental Health Department
307 W Cornelius Harnett Blvd
Lillington, NC 27546

RE: Wastewater Daily Flow Calculation Certification
Mason Point Lot 42 – 88 Old Barn Way
Fuquay-Varina, Harnett County, North Carolina
Project #: 2031

Mr Currin:

Central Carolina Soil Consulting (CCSC) in conjunction with Bateman Civil Survey Company have reviewed plumbing receipts from Celey's Quality Services LLC. Based on our review of the fixtures listed the faucets in all of the bath rooms have changed from a Moen 4925 with a 1.5 gallon per minute flow to Moen 6410 with a 1.2 gallon per minute flow rate and the kitchen faucet also changed from a Moen 7430 with a 1.5 gallon per minute flow rate to a Moen 7594srs with a 1.5 gallon per minute flow rate. All other fixtures were installed as proposed. The changes changed the overall flow reduction from 39% to 41%.

With respect to increased effluent strength, we do not believe that the effluent strength will increase with the addition of a bedroom. The fixtures that are currently installed in the home are standard low flow fixtures that are installed in all of the homes built by KB Homes. These fixtures are used in houses all over the country and have been used for several decades. The additional bedroom will increase the volume of effluent, but will not change the strength of the effluent and should be consistent with levels required for residential waste in 15A NCAC 18A .1970 b, table 8.

We have reviewed the design and installation of the system located at 88 Old Barn Way and are satisfied that the tanks and drainfield are installed per the permit and are capable of handling the additional bedroom without modification.

Attached is a revised flow reduction packet with specification sheets for the new fixtures and updated calculations. If the home owner wants to increase the flow rate of any fixture they will need to get approval from Harnett County Environmental Health and the designing Engineer.

Should you have any questions or comments please contact Matt Burdette at 919-422-2827 or Tom Speight with Bateman Civil Survey Company – 2524 Reliance Ave. Apex NC 27539 – (919) 577-1080

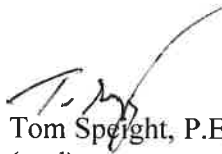
Sincerely,

CENTRAL CAROLINA SOIL CONSULTING PLLC

BATEMAN CIVIL SURVEY COMPANY



Matt Burdette
Environmental Specialist



Tom Speight, P.E.
(seal)



Attachments