North Carolina
Division of Environmental Health

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Terry L. Pierce, Director
On-Site Water Protection Section
Ted Lyon, Chief

State of North Carolina
Michael F. Easley, Governor

Department of Environment and Natural Resources
William G. Ross, Secretary

Memorandum

To: Judy Melville (704-662-3239)
Wesley Sparks (704-662-3239)

From: Tricia Angoli

cc: Brady Freeman (704-658-1724)

Subject: Bells Crossing Amenities Area

Date: September 5, 2008

Judy and Wesley,

I reviewed the information sent to me by Brady Freeman for the proposed amenities area for Bells Crossing. I concur with the proposed flow rate of 5 gal/lot, for a total design flow of 1,020 gpd.

Let me know if you have any questions.

Tricia

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ROLLANS ***Soil & Environmental Services, Inc.***
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Ashley Rollans, NC Licensed Soil Scientist
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Brady Freeman, Registered Sanitarian
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Trish Angoli,

Rollans Soil & Environmental Services has been contracted to design an amenities area septic system for Bells Crossing Subdivision in the southern part of Iredell County. According to 15A NCAC 18A .1949(b) (Sewage Flow for Design Units) the design flow for a pool is 10 gallons per 15 square feet of pool area. The proposed amenities area will include a pool that is 3198 square feet and a community building. Enclosed is a floor plan for a building that will serve as a bath house and a community HOA meeting area with a kitchen area that has a refrigerator and sink only. Also attached is a copy of the proposed subdivision layout with the amenities location and layout for approximately 204 lots.

Also provided is water data for a 344 lot subdivision amenities area that has a comparable pool size and community building. There are 12 consecutive months of data and 43 consecutive daily readings from June 24 through August 5. The average daily flow for the consecutive daily readings is 0.50gal/lot, with June being the highest monthly reading of 4.83gal/lot. We are proposing a flow of 5 gallons per lot to satisfy the peak monthly reading from the data provided for a total of 1020 gallons per day.

Please let me know if there is anything else you need or anything we need to do to help you make a decision in this matter.

Thanks,

Brady Freeman
704-746-6497

cc: Judy Melville