



1340 Penn Avenue
Wyomissing, PA 19610
T: 610-678-3071
F: 610-678-3517
www.bogiaeng.com

RECEIVED OCT 13 2021

October 6, 2021

Reading Waste Water Treatment
899 Morgantown Road
Reading, PA 19607

Re: Exeter Hall
City of Reading, Berks County PA

Please accept this letter as a request for the City of Reading to provide waste water services to the above noted site. We would like to have written confirmation that the City of Reading has the capacity and is willing to provide service to the proposed development. The proposed development consists of a five-story institutional use building. The proposed development is the construction of a 5-story building for student housing at 1700 N. 12th St, and parking at 1716 N. 12th Street. The total sq.ft. of the building is 26,844 sq.ft.

The estimated sewage flows for the student housing use are calculated using both the Pennsylvania Department of Environmental Protection Domestic Wastewater Facilities Manual and the Pennsylvania Code Title 25, Chapter 73, Section 73.17 Sewage flows for the design of community on-lot sewage systems. We recognize that we are not designing an on-lot community sewage system. The Pennsylvania Code simply gives us a reference point for estimation purposes.

These two references were utilized to estimate sewage flows for this particular use, as neither reference specifically mentions college dormitories. In the Pennsylvania Department of Environmental Protection Domestic Wastewater Facilities Manual, boarding schools are listed as 75 gpd/cap. In the Pennsylvania Code Title 25, Chapter 73, Section 73.17 Sewage flows for the design of community on-lot sewage systems, boarding schools is listed again, but having a value of 100 gpd/cap. Although relatively close in description, a typical boarding school student would spend all day, every day, at the boarding school. This would include the daily preparation of three meals, laundry, toilet and shower uses, etc. A typical college student may utilize laundry, toilet and shower facilities daily while in the dorm, however, they may not prepare three meals daily, or spend all day, every day in the dorm. Therefore, we feel the values of 75 gpd/cap and 100 gpd/cap from are higher than what we are anticipating. We estimate a value of 50 gpd/cap.

Therefore, using the total proposed capacity of students using the dormitory of 350 students:

50 gpd/cap X 350 students = 17,500 gpd.



BOGIA ENGINEERING INC.

1340 Penn Avenue
Wyomissing, PA 19610
T: 610-678-3071
F: 610-678-3517
www.bogiaeng.com

The estimated sewage flows for the restaurant use are calculated using the values from Pennsylvania Code Title 25, Chapter 73, Section 73.17 Sewage flows for the design of community on-lot sewage systems. We recognize that we are not designing an on-lot community sewage system. The Pennsylvania Code simply gives us a reference point for estimation purposes.

50 gpd/cap X 350 students = 17,500 gpd.

The total for the proposal will be 17,500 gpd.

At a value of 400 gpd/EDU, this will equate to 44 EDUs for this proposal.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Russell Long", is written over the typed name.

Russell Long