

May 24, 2016

Town of New Castle  
Finance Director/Treasurer  
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RE: Lakota Senior Housing Community Center EQR Calculation

Dear Lyle,

In consideration of the presumptive water use at the above referenced project as having the fixtures as described in the attached plumbing permit. To include; 2-toilets, 2-wash basins, 1-sink w/disposal, 1-dishwasher and 5-clothes washing machines; I have concluded as follows.

If the project is permitted under:

1. Classification #7 – *Commercial or public buildings such as stores, offices, industrial warehouses, and similar, having industrial wastes, process water or waste loads (i.e., which are used for nonsolid waste disposal):*
  - a. (A) *One bathroom (1 to 3 water using fixtures) = 1.0 EQR*
    - i. 2-toilets, 2-wash basins, 1-sink w/disposal, 1-dishwasher <= 6 water using fixtures  
1. = 2.0 EQR
  - b. (F) *For Each Additional water fixture not listed above = 0.2 EQR*
    - i. 5 washing machines  
1. = 1.0 EQR; (0.2 EQR/fixture x 5 fixtures = 1.0 EQR)

The water consumption amount would be 3.0 EQR's.

Alternatively; if the proposed washing machines are designated as 'coin operated' as described in Classification #2 – *Multifamily residential units, four units or more, apartments, condominiums, townhomes, when in one building and billed collectively*: Sub-classification 2(D) *Coin operated washing machine*: equates to 0.5 EQR instead of the 0.2 EQR assumption from the classification designation.

This would change the Total EQR counts in Classification 7 to 4.5 EQR.

Upon your receipt and review, if you have any questions or concerns, please don't hesitate to contact me.

Respectfully,  
**SGM, Inc.**



Scott P. Gregory, PE  
Senior Engineer