



APPLICATION TO CONSTRUCT OR ALTER A DAM

PART A. OWNER & APPLICATION TYPE

Name of Owner of Subject Dam: City of York, South Carolina

Address: 10 N Roosevelt Street York SC 29745
(Street or P.O. Box) (City) (State) (Zip Code)

County of Dam's Location: York County Owner's Telephone No.: (803) 684-2341

Tax Map Number of Property on Which Dam Will Be Built: 0700101008

Application Is Submitted For a Permit to:

- | | |
|---|---|
| <input type="checkbox"/> Construct a new dam | <input type="checkbox"/> Remove existing dam |
| <input checked="" type="checkbox"/> Repair existing dam | <input type="checkbox"/> Enlarge existing dam |

PART B. GENERAL INFORMATION

The following basic information is pertinent to the plans and specifications and should be assembled by or with the assistance of a qualified engineer.

1. Structural height of dam: 22.00 feet
(Measured from low point on original ground profile to top of dam)
2. Surface area of impoundment at normal pool level: 8.74 acres
3. Volume of water impounded at normal pool level: 73.85 acre feet
4. Watershed area: 485.00 acres

5. Give a brief description of the watershed characteristics (include ground cover, slope, shape & soils):

The watershed is generally rectangular and contains mostly Cecil sandy loam soils (38%) and hard labor sandy loam (28%). The remaining soil is various sandy loams. The watershed is situated immediately northwest of the City of York and is roughly bounded by Alexander Love Highway, Kings Mountain St., and W. Liberty St. Ground cover is mostly treed with some quarter-acre lot development. The slope is generally 4-5% across the watershed.

6. Is there an existing water impoundment on the same stream? Yes No
If yes, distance: 0.10 miles, Upstream or Downstream (check appropriate box).
7. Name of stream: Upper Reservoir
8. Describe the downstream area of potential damage in case of failure of the dam.
Include:
 - a. Number and type of buildings;
 - b. If homes are included, total number of people;
 - c. Number and description of public utilities and roads;
 - d. Distance downstream from proposed dam location to applicant's property line;

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Stormwater Management Division & Agricultural Permitting Division

(description of downstream area of potential damage continued)

An Emergency Action Plan was completed by Armstrong Glen in 2014 and submitted to SCDHEC.
a. There are roughly 27 property owners inundated by a dam failure scenario. Of those 27, 24 are residences and 3 are businesses.
b. The total number of residents is approximately 73.
c. 5 streets (Liberty Street, Hwy 321 Bypass, California Cir, Longleaf Rd, Ferguson Farm Rd) and water services along Liberty and California Streets.
d. Approximately 150' to W. Liberty Street Right of Way

9. Stream flow is: Intermittent Permanent If permanent, estimated flow is _____ cfs.

10. Give a brief statement pertaining to probable future development of the area downstream from the dam that would be affected by its failure.

Future development would potentially increase the number of inundated homes and properties downstream of the dam. The Emergency Action Plan should be updated within the recommended time period or if significant development occurs downstream.
Over the long term, the City of York plans to lower the weir level of the dam by 4.11 feet, thus providing added safety factor.

11. Impoundment presently is or will be used for: Raw water supply for the City of York.

12. Describe location of site or proposed site.

Nearest Community: City of York, SC County: York

Give distance and direction from nearest town, city, road intersection, or street intersection.

830 feet from the intersection of W. Liberty Street and Hwy 321 Bypass.

13. Attach a U. S. Geological Survey map or aerial photograph showing the exact location of dam, location of roads, utilities, access to site, outline of reservoir, watershed and property lines. Property lines in relation to proposed dam may be shown on a sketch.

14. Was the above information obtained with the assistance of a registered professional engineer legally qualified in the state? Yes No If yes, give:

Name: William M. Armstrong, PE

Address: 9731-L Southern Pine Blvd

Telephone: (704) 529-0345 SC Registration No.: 29000

I hereby certify that the information contained in this application is true and correct to the best of my knowledge. I fully understand that any willful misrepresentation of facts may cause denial or revocation of the subject permit, and further may result in criminal prosecution.

Owner's Name Printed: Charles G Helms

Owner's Signature: Charles G Helms Date: (MM/DD/YYYY) 1-29-16

Send completed application with map, plans, specifications, and design calculations to the South Carolina Department of Health and Environmental Control, Dams and Reservoirs Safety, at the address below:

DAMS AND RESERVOIRS SAFETY
SC DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
2600 BULL STREET
COLUMBIA, SOUTH CAROLINA 29201