

D 0581

APR 08 2016



South Carolina Department of Health and Environmental Control

APPLICATION TO CONSTRUCT OR ALTER A DAM

South Carolina Department of Water Resources Construction & Cultural Permitting Division

PART A. OWNER & APPLICATION TYPE

Name of Owner of Subject Dam: REFLECTIONS HOA - RICK GRAY

Address: [Redacted] (Street or P.O. Box) [Redacted] (City) [Redacted] (State) [Redacted] (Zip Code)

County of Dam's Location: RICHLAND Owner's Telephone No.: [Redacted]

Tax Map Number of Property on Which Dam Will Be Built: 22001-08-01

Application Is Submitted For a Permit to:

- Construct a new dam [] Remove existing dam []
Repair existing dam [x] 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: 11.80 feet
2. Surface area of impoundment at normal pool level: 16.50 acres
3. Volume of water impounded at normal pool level: 160.00 acre feet
4. Watershed area: 1,872.00 acres
5. Give a brief description of the watershed characteristics (include ground cover, slope, shape & soils.):

THE WATERSHED IS A COMBINATION OF WOODED AREAS AND URBAN RESIDENTIAL AREAS SOUTH OF LEESBURG ROAD AND AROUND THE POND.

6. Is there an existing water impoundment on the same stream? Yes [x] No []
If yes, distance: 0.00 miles, Upstream [] or Downstream [x] (check appropriate box).

7. Name of stream: MILL CREEK

- 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;

(description of downstream area of potential damage continued)

IMMEDIATELY DOWNSTREAM IS ANOTHER SMALL IMPOUNDMENT. ROAD IS APPROXIMATELY DOWNSTREAM.

9. Stream flow is: Intermittent Permanent If permanent, estimated flow is 5.00 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.

THE DOWNSTREAM AREA THAT WOULD BE AFFECTED BY DAM FAILURE IS MOSTLY WETLANDS AND SHOULD NOT BE SUBJECT TO FUTURE DEVELOPMENT.

11. Impoundment presently is or will be used for: RECREATION AND IRRIGATION

12. Describe location of site or proposed site.

Nearest Community: COLUMBIA County: RICHLAND

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

IN REFLECTIONS COMMUNITY ON STONEY CREEK ROAD IN SOUTHEAST COLUMBIA, SC.

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 C. COOPER, P.E.

Address: 1711-C WOODCREEK FARMS ROAD, ELGIN, SC 29045

Telephone: (803) 699-7728 SC Registration No.: 9810

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: RICK GRAY

Owner's Signature: [Signature] Date: (MM/DD/YYYY) 4/1/16

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