



South Carolina Department of Health and Environmental Control

APPLICATION TO CONSTRUCT OR ALTER A DAM

PART A. OWNER & APPLICATION TYPE

Name of Owner of Subject Dam: Cypress Lake, Inc c/o John Hardy - President

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

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

Tax Map Number of Property on Which Dam Will Be Built: Parcel - 326-00-01-005-00

Application Is Submitted For a Permit to:

- Construct a new dam
- Remove existing dam
- Repair existing dam
- 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: 12.00 feet
(Measured from low point on original ground profile to top of dam)
2. Surface area of impoundment at normal pool level: 26.00 [±] acres See Attachment #1
3. Volume of water impounded at normal pool level: 104.00 [±] acre feet (26 Ac. X 4')
4. Watershed area: 10,500.00 [±] acres See Attachment #2
5. Give a brief description of the watershed characteristics (include ground cover, slope, shape & soils):

See Attachment #2 for Drainage Map and Soils Map of Watershed with description of watershed characteristics.

6. Is there an existing water impoundment on the same stream? Yes No
If yes, distance: 1.85 miles, Upstream or Downstream See Attachment #3
7. Name of stream: Horse Branch
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)

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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.

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11. Impoundment presently is or will be used for: Recreation / fishing

12. Describe location of site or proposed site.

Nearest Community: Turbeville County: Clarendon

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

Cypress Lake is located north of State Rd 14-34 (Puddin Swamp Rd) approximately 1.0 miles south of the intersection of State Rd 14-45 (Seloc Rd) and State Rd 14-34 (Puddin Swamp Rd.), approximately 3.0 miles south of Turbeville. See Attachment 11.

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 N. Keenan, Jr., PE

Address: 116 N. Jackson Street Kingstree, SC 29556

Telephone: (843) 355-9265 SC Registration No.: 5253

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: John Hardy

Owner's Signature: [Signature] Date: (MM/DD/YYYY) 6/24/2016

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

8. *Describe the downstream area of potential damage in case of failure of the dam.*

a. *Number and type of buildings:*

1. Cypress Lake is located on the lower end of Horse Branch approximately three (3) miles south of Turbeville in Clarendon County, SC. The Cypress Lake Dam is located approximately 2,200 feet north of the intersection with Puddin Swamp (See Attachment 4). There are no houses or buildings in the area between Cypress Lake Dam and Puddin Swamp. The swamp area between the Cypress Lake Dam and Puddin Swamp is approximately 46 acres. See Attachment 4. There are no homes or other structures located in the flood plain between Cypress Lake and Pudding Swamp.

This flood plain area would contain the potential failure of the Cypress Lake dam without causing any damage to any buildings as it did in the October 2015 flood. The first joint of 72" corrugated metal rusted out and failed causing the north half of State Road 14-34 to wash out. See Attachment 5 for photographs.

b. *If homes are included, total number of people:*

1. There are no homes in the downstream area of potential damage should the Cypress Lake dam fail.

c. *Number and description of public utilities and roads:*

1. State Road S-14-34 road bed is the dam for Cypress Lake. See Attachment 10.

2. Sanitary Sewer 8" Force Main line on south side of State Road 14-34 owned by Town of Turbeville. See Attachment 9.

3. Fiber optic phone line owned by Farmers Telephone Cooperative on north side of State Road 14-34. This line was directionally bored under the existing 72 diameter outfall pipe. See Attachment 8.

d. *Distance downstream from proposed dam location to applicant's property line:*

1. See Attachment 6 for Plat and Tax Map that shows applicant's property downstream from the dam.

Note that there is a "basin" about 0.36 acres in size at the outlet end of the 72" diameter discharge pipe. This "basin" is on Cypress Lake, Inc. property and adjacent (326-00-02-007-00) property. See Sketch of "Basin on Plat. See Attachment 6.

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

There is no probable future development in the area downstream from the dam that would be affected by Cypress Lake dam failure. Horse Branch continues approximately 2,200 feet to the intersection with Pudding Swamp. See Attachment 4. From the intersection of Horse Branch and Puddin Swamp, Puddin Swamp extends approximately 11.0 miles to Black River. See Attachment 7. The size of the area and potential volume downstream from Cypress Lake is small in comparison to the volume of Cypress Lake. Any future development downstream from Cypress Lake would not be constructed in the flood plain.