



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 0024 & Hazard Class C1 B. Name of Dam: Lake Elizabeth Dam
C. Inspection Date (11/16/2014) & Time: D. Date of Last Inspection: ( / / )
E. Location-County/City: Richland 1 F. EQC Regional Office: Region 3 -Columbia
G. Inspector's Name: Steven Hauptmann
H. Owner's Name: Lake Elizabeth Estates
I. Contact Person (if different from above): David Ray
J. Dam Owner's or Contact Person's Phone Numbers: Home ( ) - - Office ( ) - - Other ( ) - -
K. Dam Owner's or Contact Person's mailing address:
Address 1 359 Nina Lee Dr
Address 2 (optional)
City Columbia State SC Zip Code 29229

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [checked] b) Fair [ ] c) Poor [ ] d) Unsatisfactory [ ] e) Not Rated [ ]

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Paved Rd
ii. Animal activity observed?
iii. Any obvious alteration or repairs made?
iv. Erosion noticed on crest?
v. Any visible settlement, misalignment or cracks?

**Section III (Dam Inspection Checklist) continued**

**B. Upstream Slope**

- i. Vegetation (grass, trees weeds)? grass
- ii. Animal activity observed? possible - holes
- iii. Any obvious alterations or repairs made? \_\_\_\_\_
- iv. Erosion observed on upstream slope? \_\_\_\_\_
- v. Settlement or cracks visible in slope? Small crack near 'Lake Elizabeth sign'

**C. Down Stream Slope**

- i. Vegetation (grass, trees weeds)? Trees, Weeds, briars, brush.
- ii. Animal activity observed? \_\_\_\_\_
- iii. Any obvious alterations or repairs made? \_\_\_\_\_
- iv. Erosion observed on down stream slope? \_\_\_\_\_
- v. Settlement or cracks visible in slope? \_\_\_\_\_
- vi. Toe drains flowing? \_\_\_\_\_
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: \_\_\_\_\_

**D. Primary Spillway**

- i. Any visible deterioration of structure? \_\_\_\_\_
- ii. Is there an obvious need to repair or replace trash rack? \_\_\_\_\_
- iii. Any noticeable problems with debris? \_\_\_\_\_
- iv. Is valve or gate present? yes - Needs exercise

**E. Outlet Pipe**

- i. Any water visibly flowing or leaking outside of the discharge pipe? \_\_\_\_\_
- ii. Describe any deflection or damage observed to the pipe: \_\_\_\_\_
- iii. Visible condition of outlet channel: \_\_\_\_\_

**F. Auxiliary (Emergency) Spillway**

- i. Noticeable obstructions to flow? \_\_\_\_\_
- ii. Animal activity observed? \_\_\_\_\_
- iii. Any noticeable deterioration in the approach or discharge channel? \_\_\_\_\_
- iv. Any visible deterioration of structure's crest? Spillway concrete pitted

**F. Auxiliary (Emergency) Spillway continued**

v. If applicable, any observed exposure of rebar reinforcement? \_\_\_\_\_

vi. If applicable, any visible leakage below concrete spillway? \_\_\_\_\_

**H. Downstream/Hazard Class Issues**

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? \_\_\_\_\_

**I. Emergency Action Plan (EAP)**

i. Emergency Action Plan provided by owner? \_\_\_\_\_

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? \_\_\_\_\_

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? \_\_\_\_\_

**Section IV (Conclusions)**

**General comments and recommendations:**

- have engineer evaluate animal holes/sinkholes
  - downslope should be evaluated by engineer for clearing/removing trees + brush
  - evaluate spillway for integrity & gate function.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Preliminary Dam Inspection Disclaimer:**

The information contained in the preliminary inspection report is intended as an aid to identify those dams that require maintenance and/or repair actions to reduce their danger to human life or property only. It is not intended as professional engineering or consulting advice for conditions or situations present at individual dams. It is not a substitute for a detailed inspection, nor does it replace the need for services provided by registered professional engineers. If your dam is experiencing an unusual situation consult with engineering professionals to find an appropriate remedy. Preliminary inspections conducted by South Carolina Department of Health and Environmental Control (the Department) are provided "AS IS" and "as available", without warranties of any kind, either express or implied. Preliminary inspections consist only of a visual but technical examination of the dam and its appurtenant works. All findings are based solely on visual observations of the inspector at the time of the inspection. Common law holds that the storage of water is a hazardous activity and the Department does not assume any responsibility or risk for your actions or inactions. Dam owners are responsible for the safe operations and maintenance of their impoundment structures.