



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

Date: December 6, 2012

Attn: Richard and Neil Inman
3638 Falling Springs Rd
Columbia, SC 29229

RE: Reinspection of Cresent Lake Dam D-0545, Classification C2, Richland County

Dear Richard and Neil Inman:

The Cresent Lake Dam was inspected on December 4th, 2012 under the provisions of South Carolina Dams and Reservoirs Safety Act.

During this inspection I noticed many trees, exposed roots, brush and downed trees. Since trees and their root systems are very damaging to the integrity of a dam, I recommend that you have an engineer evaluate them for removal. The deep leaf cover made it impossible to conduct a thorough inspection of the soil conditions (i.e. cracks, seepage, sinkholes etc). The emergency spillway/overflow area should be cleared such that during a high rain event, water will effectively flow through this area and reduce the chance of overtopping (which can lead to catastrophic failure). A copy of the inspection report is enclosed.

Also, please complete the updated Emergency Notification and Action Plan and return one copy with original signatures to the address provided on the instruction sheet.

Sincerely,

Steven Hauptmann, EIT
District EngineerAssociate
Region 3 EQC- Columbia
hauptmse@dhec.sc.gov



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 0545 & Hazard Class C2 B. Name of Dam: Croscore Lake Dam
C. Inspection Date (12/04/2012) & Time: 12:30pm D. Date of Last Inspection: (02082005)
E. Location-County/City: Richland / Columbia F. EQC Regional Office: Region 3-Columbia
G. Inspector's Name: Steven Hauptmann
H. Owner's Name: Richard & Neil Inman
I. Contact Person (if different from above): _____
J. Dam Owner's or Contact Person's Phone Numbers: Home () 765-9516
Office () _____
Other () _____
K. Dam Owner's or Contact Person's mailing address:
Address 1 3638 Falling Springs Rd
Address 2 (optional) _____
City Columbia State SC Zip Code 29203

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

a) Satisfactory ☐ b) Fair ☒ c) Poor ☐ d) Unsatisfactory ☐ e) Not Rated ☐

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Tree roots, trees, briars, Deep leaves, Down/Rotten trees
- ii. Animal activity observed? Possible
- iii. Any obvious alteration or repairs made? _____
- iv. Erosion noticed on crest? _____
- v. Any visible settlement, misalignment or cracks? Too many leaves to see DIRT/cracks etc.

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees, brush, thick leaves
- ii. Animal activity observed? Possible
- iii. Any obvious alterations or repairs made? _____
- iv. Erosion observed on upstream slope? yes-
- v. Settlement or cracks visible in slope? Too many leaves

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, thick leaf cover
- ii. Animal activity observed? _____
- iii. Any obvious alterations or repairs made? _____
- iv. Erosion observed on down stream slope? Around outfall structure
- v. Settlement or cracks visible in slope? Too many leaves
- 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? NO TRASH RACK
- iii. Any noticeable problems with debris? _____
- iv. Is valve or gate present? ?

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: Erosion of soil around outfall structure from turbulent outfall

F. Auxillary (Emergency) Spillway

- i. Noticeable obstructions to flow? Fences, trees, debris
- ii. Animal activity observed? Possible
- iii. Any noticeable deterioration in the approach or discharge channel? _____
- iv. Any visible deterioration of structure's crest? _____

F. Auxillary (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? _____

Same House downstream + to East of dam

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:

9 pictures Start 12-4-12 12:28pm, End 12-4-12 12:40pm

MANY trees - Should be evaluated for removal - See/consult an Engineer
& massive Leaf cover prevents thorough inspection for cracks/seepage
Emergency spillway should be cleared / Rebuilt to prevent overflowing
in high rain situation

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.