



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
Division of Water Resources  
Nashville Environmental Field Office  
711 R.S. Gass Blvd.  
Nashville, TN 37216

July 8, 2022

Mr. Tim Stewart, Assistant Director  
Facilities & Land Management  
Tennessee State Parks  
312 Rosa L. Parks Avenue, 2<sup>nd</sup> Floor  
Nashville, TN 37243

RE: **Acorn Lk, Creech Hollow Lk and Woodhaven Lk Dams, Dickson County**  
**I. D. Nos. 22 - 7002, 22 - 7011 and 22 - 7004**

Dear Mr. Stewart:

On June 28, 2022, personnel of this Division conducted Safety Inspections on the above referenced dams. Based on these inspections, the dams appear to comply with the Safe Dams Act, TCA 69-11-101 et seq., and therefore merit Certificates of Approval and Safety for operation. Enclosed are inspection reports, which outline the observed conditions at the dams.

During the inspections, certain minor conditions listed below and in the inspection reports were observed. These conditions need to be corrected or monitored to insure they do not develop into a serious threat to the safety of the dams.

1. **The Woodhaven Lake Dam Piezometer readings must be taken twice a year and keep a log of the monitoring data at the State Park Office for review.**
2. **The Department recommends that the routine maintenance program be continued on each of the dams.**

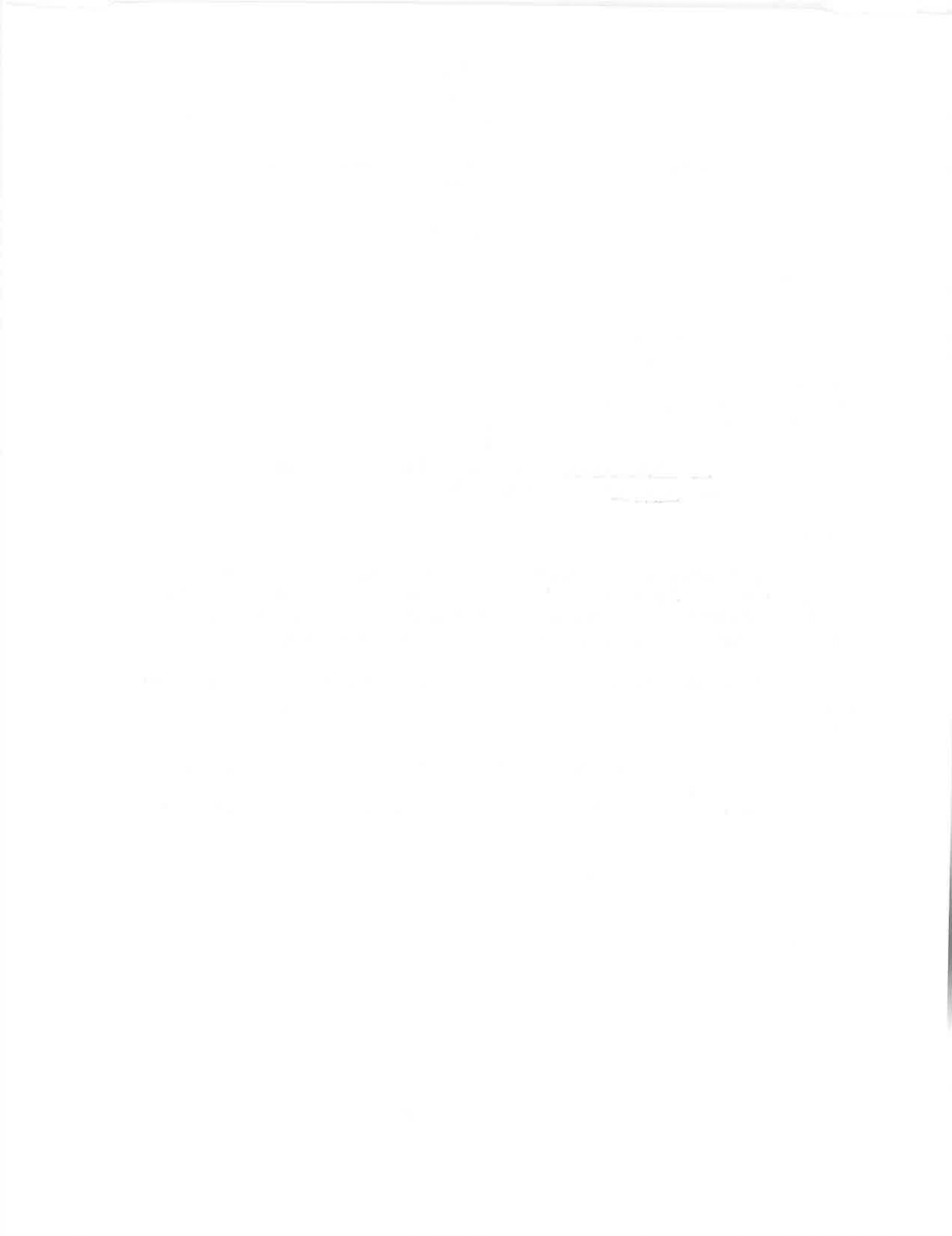
Please contact me at (615) 306-0825 if there are any questions. Thank you for your cooperation with the Division of Water Resources Safe Dams Program.

Sincerely,

Ernest Ekwugha  
Environmental Protection Specialist

Enclosures/

cc: Pat Wright, Park Manager - Montgomery Bell State Park  
Tim Jennette - Nashville Field Office





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INSPECTION REPORT  
DAM AND APPURTENANT WORKS

Name of Structure Creech Hollow Lake Dam I.D. 22-7011

Owner Tennessee Dept. of Environment and Conservation Dickson

H.P.C. 1 Weather Sunny, 80° Date June 28, 2022

Last Inspection Date June 21, 2021 Lake Level 1' > Normal Pool

Emergency Spillway Capacity: Required 1/2 PMP\* Existing 1/2 PMP

Persons Present at Inspection Ernest Ekwugha - TDEC Safe Dams

Patrick Summerall - Maintenance Supervisor, Montgomery Bell State Park

\*Required capacity based on November 1, 1991, memo, available in Safe Dams file.

Any structural modifications, problem areas, or additional information should be sketched. If additional sheets are needed for further sketches or notes, these should also be noted and made a part of this report.

1. UPSTREAM (LAKESIDE) SLOPE OF DAM

A. Vegetative Cover Grass and weeds.

Trees	Yes	No
	<u>          </u>	<u>X</u>
Brush and/or Briers	<u>          </u>	<u>X</u>
Needs Mowing	<u>          </u>	<u>X</u>

B. Erosion There was no erosion noted.  
\_\_\_\_\_  
\_\_\_\_\_

C. Slope Protection Riprap at normal pool elevation.  
\_\_\_\_\_  
\_\_\_\_\_

Completely rip-rapped? Yes No  
               
       X

Areas needing additional riprap None.  
\_\_\_\_\_  
\_\_\_\_\_

D. Slumps, Slides, Cracks None.  
\_\_\_\_\_  
\_\_\_\_\_

Sketch of location attached? Yes No  
               
       X

E. Animal Burrows None.  
\_\_\_\_\_  
\_\_\_\_\_

F. Drift and Debris None.  
\_\_\_\_\_  
\_\_\_\_\_

Blocking trash rack or riser inlet? Yes No  
               
       X

G. Remarks The upstream slope appeared in satisfactory condition.  
\_\_\_\_\_  
\_\_\_\_\_

2.  REST (TOP OF DAM)

A. Vegetative Cover Grass.

Trees	Yes	No
		X
Brush and/or briars	—	X
Needs mowing	—	X
Ruts from vehicle or foot traffic	—	X

B. Erosion None.

C. Slumps, Slides, Cracks None noted.

Sketch of location attached?	Yes	No
	—	X

D. Remarks The crest of dam appeared in satisfactory condition.

3. DOWNSTREAM SLOPE OF DAM

A. Vegetative Cover Grass.

Trees	Yes	No
		X
Brush and/or briars	—	X
Needs mowing and/or clearing	—	X
Needs reseeding	—	X

B. Erosion None noted.  
 \_\_\_\_\_  
 \_\_\_\_\_

C. Seepage There was no seepage noted along toe. The left side of the outlet pipe appeared wet. The natural spring has been ditched to flow into the original creek.  
 \_\_\_\_\_

	Yes	No
Left Abutment (Looking Downstream)	_____	X _____
Right Abutment (Looking Downstream)	_____	X _____
Toe of Dam	_____	X _____
Sketch of location attached	_____	X _____
Soil particles or discolored water in the seepage	_____	X _____

ESTIMATED VOLUME OF SEEPAGE Zero  
 \_\_\_\_\_

D. Slumps, Slides, Cracks None noted.  
 \_\_\_\_\_  
 \_\_\_\_\_

	Yes	No
Sketch of location attached?	_____	X _____

E. Animal Burrows None noted.  
 \_\_\_\_\_  
 \_\_\_\_\_

	Yes	N/A	No
Water coming from hole?	_____	X _____	_____
Running water sounds heard?	_____	X _____	_____

F. Remarks The downstream slope is in satisfactory condition. Continue to monitor all wet areas and seepage flow for changes.  
 \_\_\_\_\_  
 \_\_\_\_\_

4. PRINCIPAL SPILLWAY

A. Inlet

1. Type (concrete, metal, etc.) Concrete riser - typical  
NRCS design.

2. Shape Rectangular.

3. Condition Satisfactory.

B. Outlet

1. Type (concrete, metal, etc.) 30" Reinforced concrete pipe.

2. Shape Circular.

3. Condition Satisfactory.

Is stilling basin rip-rapped?

Yes  
X

No

C. Remarks The principal spillway appeared in satisfactory  
condition.

5. EMERGENCY SPILLWAY

A. Type (rock, earthen, etc.) 100' wide earthen channel at right  
end of the dam.

B. Condition Satisfactory.

Inlet blocked by debris?	Yes	No
	<u>          </u>	<u>  X  </u>
Trees or brush growing in channel?	<u>          </u>	<u>  X  </u>

C. Remarks The emergency spillway channel appeared in satisfactory condition.

\_\_\_\_\_

\_\_\_\_\_

6. DRAWDOWN FACILITIES Slide gate at base of riser.

\_\_\_\_\_

\_\_\_\_\_

When is last known time operated? 2014.

\_\_\_\_\_

Valved on upstream or downstream side? Upstream.

\_\_\_\_\_

Remarks N/A. The dam was built before the Safe Dams Act.

\_\_\_\_\_

7. DOWNSTREAM HAZARD POTENTIAL 1 - (High).

\_\_\_\_\_

Is a change in hazard classification needed?	Yes	No
	<u>          </u>	<u>  X  </u>

If Yes, explain why \_\_\_\_\_

\_\_\_\_\_

8. DO PLANS AND SPECIFICATIONS EXIST?	Yes	No
	<u>  X  </u>	<u>          </u>

If so, where? Safe Dams file.

\_\_\_\_\_

9. DO PIEZOMETERS EXIST?	Yes	No
	<u>          </u>	<u>  X  </u>

If so, how many are present? \_\_\_\_\_

Remarks \_\_\_\_\_

\_\_\_\_\_



10. GENERAL COMMENTS The dam is certifiable and appeared in satisfactory condition.

11. RECOMMENDATIONS

1. Monitor all wet spots on the downstream slope regularly for any changes.

2. Continue the routine maintenance program on the dam.

INSPECTOR'S SIGNATURE

*Ernest Ekwugha*

*July 8, 2022*

Ernest Ekwugha

DATE

INSPECTION REPORT SUMMARY

DAM NAME Creech Hollow Lake Dam I.D. NUMBER 22 - 7011

INSPECTION DATE June 28, 2022

The checklist below is marked to indicate the conclusions in the report.

**GENERAL CONDITIONS**

Satisfactory	Marginal	Deficient
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<u>UPSTREAM SLOPE</u>			
Vegetative Cover	X		
Mowed Adequately	X		
Erosion	X		
Slope Protection	X		
Slumps, Slides, Burrows	X		
<u>CREST OF DAM</u>			
Vegetative Cover	X		
Mowed Adequately	X		
Erosion	X		
Ruts, Cracks, Holes	X		
<u>DOWNSTREAM SLOPE</u>			
Vegetative Cover	X		
Mowed Adequately	X		
Erosion	X		
Seepage	X		
Slumps, Slides, Burrows, Holes	X		
<u>SPILLWAYS AND DRAWDOWN FACILITIES</u>			
Spillway Capacity	X		
Principal Spillway Condition	X		
Emergency Spillway Condition	X		
Drawdown Operable	X		

Project Name: CREECH HOLLOW LK DAM; I. D. #22-7011; DICKSON COUNTY

Inspector: Ernest Ekwugha

Inspection Date: JUNE 28, 2022



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