

# SPRINGWOOD LAKE DAM



D0558

Inspector: Ryan Sullivan

Start Date: 11/03/2025 Completed Date: 11/06/2025

## Dams Preliminary Inspection Form

### Inspection Information

1. Date of Inspection

11/03/2025



Photo Taken: 11/3/2025 9:13:55 AM  
GPS Latitude: 34.075466666667  
GPS Longitude: -80.953627777778  
GPS Altitude: 74.6111145038168 meters

2. Inspector(s) Present

Ryan Sullivan

3A. Dam Owner or Representative Present?

☒ Yes ☐ No

3B. Owner/Representative Contact Information

Name	Address	Phone	Email	Role
Harry Green				Owner Rep

4. Type of Dam

Embankment

5. Is this a follow-up inspection?

☐ Yes ☒ No

### Observation & Instrumentation

1. Estimated Water Level

Drained

2. Current and Recent Weather Conditions

Sunny

3. Recent Rainfall Totals

None

4A. Number of Spillways Present

2

4B. Types of Spillways Present

Drop Inlet, Concrete Chute

5A. Other Instrumentation Present?

☐ Yes ☒ No

6. Other Observations

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<b>► Embankment - Crest</b>	
<b>1A. Is a road present on the crest?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Comments:</i> Road is closed due to the damaged state of the dam.	
<b>► 1B. Condition of Road Surface</b>	Monitor, Action Required
<b>2. Grass Cover</b>	Monitor
<b>3. Small Trees (less than 4" dbh), Weeds, and Brush</b>	Monitor, Investigate, Action Required
<i>Comments:</i> Brush, woody vegetation, and small trees growing on the crest.	
<b>4. Large Trees (greater than 4" dbh)</b>	No Deficiency, Monitor
<b>5. Animal Activity</b>	Monitor
<b>6. Surface Cracking</b>	Monitor
<b>7. Horizontal Alignment</b>	Monitor
<b>8. Settlement/Sinkholes</b>	Monitor, Investigate, Action Required
<i>Comments:</i> Large sinkholes on the crest filled in with cement during emergency repairs.	
<b>9. Erosion</b>	No Deficiency
<b>10A. Are Alterations/Repairs Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>11. Embankment - Crest Condition</b>	Regular Monitoring Required, Needs Maintenance, Needs Permitted Repairs
<b>12. Other Observations</b>	

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## ► Embankment - Upstream Slope

### 1. Grass Cover

Monitor

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## ► Embankment - Upstream Slope

### Comments:

No grass cover.



Photo Taken: 11/3/2025 9:14:55 AM  
GPS Latitude: 34.075294444444  
GPS Longitude: -80.953430555556  
GPS Altitude: 69.3932646813248 meters



Photo Taken: 11/3/2025 9:17:24 AM  
GPS Latitude: 34.074761111111  
GPS Longitude: -80.952752777778  
GPS Altitude: 66.3170928667564 meters



Photo Taken: 11/3/2025 9:19:26 AM  
GPS Latitude: 34.074383333333  
GPS Longitude: -80.9524  
GPS Altitude: 68.8340988169798 meters

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## ► Embankment - Upstream Slope

### 2. Small Trees (less than 4" dbh), Weeds, and Brush

Monitor, Investigate, Action Required

**Comments:**

Dense brush, woody vegetation, and trees less than 4" in diameter along the entirety of the upstream slope. Condition prevented full inspection.

### 3. Large Trees (greater than 4" dbh)

Monitor, Investigate

**Comments:**

Several trees approaching or at the 4" diameter threshold of requiring a permit to remove.

### 4. Animal Activity

Monitor

### 5. Surface Cracking

Monitor

### 6. Settlement/Sinkholes

Monitor

### 7. Slope Instability

Monitor

### 8. Groins

Monitor

### 9. Erosion

Monitor

### 10A. Slope Protection/Armoring Present?

☐ Yes ☒ No

### 11A. Are Alterations/Repairs Present?

☐ Yes ☒ No

### 12. Embankment - Upstream Slope Condition

Regular Monitoring Required, Needs Maintenance, Needs Permitted Repairs, Condition Prevented Full Inspection

### 13. Other Observations

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## ► Embankment - Downstream Slope

### 1. Grass Cover

Monitor, Investigate

#### ***Comments:***

No grass cover on the downstream slope.



Photo Taken: 11/3/2025 9:15:35 AM  
GPS Latitude: 34.07505  
GPS Longitude: -80.953255555556  
GPS Altitude: 69.1671219269928 meters



Photo Taken: 11/3/2025 9:20:30 AM  
GPS Latitude: 34.074333333333  
GPS Longitude: -80.952719444444  
GPS Altitude: 67.1066131025958 meters



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## ► Embankment - Downstream Slope



Photo Taken: 11/3/2025 9:21:06 AM  
GPS Latitude: 34.0743361111111  
GPS Longitude: -80.9529805555556  
GPS Altitude: 65.8161239078634 meters

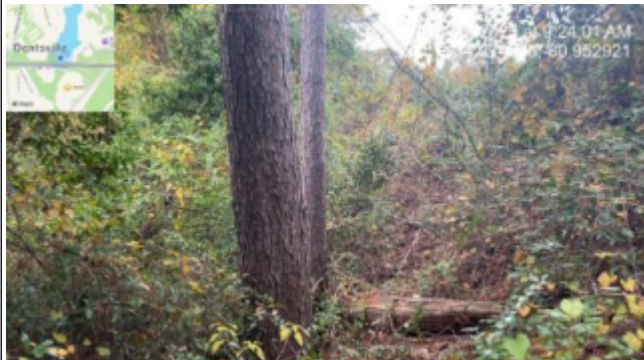


Photo Taken: 11/3/2025 9:24:01 AM  
GPS Latitude: 34.0746027777778  
GPS Longitude: -80.9529194444444  
GPS Altitude: 66.5324630711096 meters

### 2. Small Trees (less than 4" dbh), Weeds, and Brush

Monitor, Investigate, Action Required

#### **Comments:**

Dense brush and woody vegetation on the downstream slope.

### 3. Large Trees (greater than 4" dbh)

Monitor, Investigate, Action Required

#### **Comments:**

Trees greater than 4" in diameter observed on the downstream slope.

### 4. Animal Activity

Monitor

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<b>► Embankment - Downstream Slope</b>	
<b>5. Surface Cracking</b>	Monitor
<b>6. Settlement/Sinkholes</b>	Monitor
<b>7. Slope Instability</b>	Monitor
<b>8. Groins</b>	Monitor
<b>9. Erosion</b>	Monitor
<b>10A. Slope Protection/Armoring Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>11A. Wet areas or areas of hydrophilic (lush, water-loving) vegetation?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>12A. Seepage Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>13A. Are Alterations/Repairs Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>14. Embankment - Downstream Slope Condition</b> Regular Monitoring Required, Needs Maintenance, Needs Permitted Repairs, Condition Prevented Full Inspection	
<b>15. Other Observations</b>	
<b>Downstream Area</b>	
<b>Is this section applicable for this dam?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>► 1. Is downstream area clear beyond the toe of the dam?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>► 2. Small Trees (less than 4" dbh), Weeds, and Brush</b>	Monitor, Investigate
<b>► 3. Large Trees (greater than 4" dbh)</b>	Monitor, Investigate
<b>► 4A. Wet areas or areas of hydrophilic (lush, water-loving) vegetation?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>► 5A. Seepage Present?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>► 6A. Boils Present?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>► 7A. Are Alterations/Repairs Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>8. Downstream Area Condition</b> ► Regular Monitoring Required, Needs Maintenance, Needs Permitted Repairs, Condition Prevented Full Inspection	
<b>► 9. Other Observations</b>	
<b>► Erodible Channel Spillway (0)</b>	
<b>1. Spillway Location</b>	



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<b>► Erodible Channel Spillway (0)</b>			
<b>2. Grass Cover or Erosion Protection</b>			
<b>3. Small Trees (less than 4" dbh), Weeds, and Brush</b>			
<b>4. Large Trees (greater than 4" dbh)</b>			
<b>5. Animal Activity</b>			
<b>6. Settlement/Sinkholes</b>			
<b>7. Spillway Instability</b>			
<b>8. Erosion</b>			
<b>9. Debris</b>			
<b>10. Is Spillway Actively Flowing?</b>		<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>11A. Are Alterations/Repairs Present?</b>		<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>► 11B. Has a permit been issued for the alterations/repairs?</b>		<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> NA
<b>12. Erodible Channel Spillway Condition</b>			
<b>13. Other Observations</b>			

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## ► **Non-Erodible Channel Spillway    (1)**

### **1. Spillway Location**

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## ► Non-Erodible Channel Spillway (1)



Photo Taken: 11/3/2025 9:14:13 AM  
GPS Latitude: 34.0754361111111  
GPS Longitude: -80.9535138888889  
GPS Altitude: 70.2521057217543 meters



Photo Taken: 11/3/2025 9:14:28 AM  
GPS Latitude: 34.0753416666667  
GPS Longitude: -80.9535361111111  
GPS Altitude: 67.8031616522183 meters



Photo Taken: 11/3/2025 9:14:50 AM  
GPS Latitude: 34.0752944444444  
GPS Longitude: -80.9534305555556  
GPS Altitude: 69.3932646813248 meters

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<b>► Non-Erodible Channel Spillway (1)</b>	
<b>2. Approach Area</b> Monitor, Investigate, Action Required  <i>Comments:</i> Dense vegetation growing in the approach area.	
<b>3. Weir/Control</b>	Monitor
<b>4. Sidewalls</b>	Monitor
<b>5. Channel Floor</b>  <i>Comments:</i> Cracks in the concrete should be evaluated and repaired.	Monitor
<b>6. Condition of Joints</b>	Monitor
<b>7. Surface Condition</b>	Monitor
<b>8. Unusual Movement</b>	Monitor
<b>9. Discharge Channel</b>	Monitor
<b>10. Debris</b> Monitor, Investigate, Action Required  <i>Comments:</i> Dense vegetation and small trees growing in the spillway.	
<b>11. Is Spillway Actively Flowing?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>12A. Boils Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>13A. Are Alterations/Repairs Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>14. Non-Erodible Channel Spillway Condition</b> Regular Monitoring Required, Needs Maintenance, Condition Prevented Full Inspection	
<b>15. Other Observations</b>	

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## ► Intake Structure (1)

### 1. Location of Intake Structure

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## ► Intake Structure (1)



Photo Taken: 11/3/2025 9:16:35 AM  
GPS Latitude: 34.07473611111111  
GPS Longitude: -80.95285833333333  
GPS Altitude: 68.0310821181888 meters



Photo Taken: 11/3/2025 9:17:10 AM  
GPS Latitude: 34.07476111111111  
GPS Longitude: -80.95275277777778  
GPS Altitude: 66.3170928667564 meters



Photo Taken: 11/3/2025 9:17:36 AM  
GPS Latitude: 34.07476111111111  
GPS Longitude: -80.95275277777778  
GPS Altitude: 66.3170928667564 meters



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<b>► Intake Structure (1)</b>	
<b>2. Type of Intake Structure</b>	Drop Inlet
<i>Comments:</i> Square hole cut in the concrete riser to drain lake through the emergency repaired primary conduit.	
<b>3. Condition of Trashrack</b>	Not Present
<b>4A. Low-Level Valve Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5A. Debris present on intake structure?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Comments:</i> Significant debris has the opening at the bottom of the riser 1/2 to 2/3 blocked.	
<b>► 5B. Is debris restricting spillway flow?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6A. Are Alterations/Repairs Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>Comments:</i> None since the emergency repairs made to cut an opening in the riser.	
<b>7. Intake Structure Condition</b> Regular Monitoring Required, Needs Maintenance, Needs Permitted Repairs	
<b>8. Other Observations</b>	

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## ► **Outlet Structure    (1)**

### **1. Location of Outlet Structure**

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## ► Outlet Structure (1)



Photo Taken: 11/3/2025 9:20:55 AM  
GPS Latitude: 34.0743361111111  
GPS Longitude: -80.9529805555556  
GPS Altitude: 65.8161239078634 meters

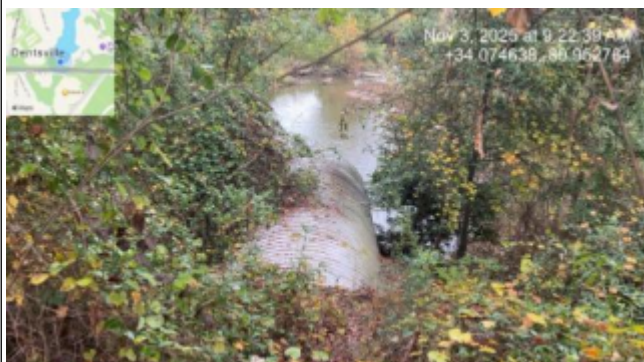


Photo Taken: 11/3/2025 9:22:39 AM  
GPS Latitude: 34.0746388888889  
GPS Longitude: -80.9527666666667  
GPS Altitude: 69.0221710336885 meters



Photo Taken: 11/3/2025 9:23:32 AM  
GPS Latitude: 34.07455  
GPS Longitude: -80.9530194444445  
GPS Altitude: 69.7143249931262 meters

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<b>► Outlet Structure (1)</b>	
<b>2. Type of Outlet Structure</b>	Pipe
<b>3. Condition of Pipe</b>	Monitor, Action Required
<b>4. Closure/Control Structures</b>	
<b>5. Unusual Movement</b>	Monitor
<b>6. Erosion present at the outlet structure?</b>	Monitor
<b>7A. Seepage present at the outlet?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>8. Condition of Stilling Basin and Discharge Channel</b>	Monitor
<b>9. Flow observed at the outlet?</b>	
<b>10A. Are Alterations/Repairs Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>11A. Toe/Seepage Drainage Systems Present?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>12. Outlet Structure Condition</b> Regular Monitoring Required, Needs Permitted Repairs	
<b>13. Other Observations</b>	
<b>► Siphon (0)</b>	
<b>1. Location</b>	
<b>2. Type of Siphon</b>	
<b>3. Self Priming?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>4. Condition of Pipe/Materials</b>	
<b>5. Is siphon buried or over the crest?</b>	
<b>6. Is the siphon currently flowing?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>7A. Is any other instrumentation present on the siphon system?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>► 7B. Type(s) of instrumentation present</b>	
<b>8. Slope armoring or energy dissipation measures present at siphon outlet?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>9. Condition of Discharge Channel</b>	
<b>10. Siphon Condition</b>	
<b>11. Other Observations</b>	

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## Emergency Action Plan

Is this section applicable for this dam? ☒ Yes ☐ No

1A. Is a current and approved EAP on file for this dam? ☐ Yes ☒ No

Violation Determined: 11/06/2025  
DAMREPORT

1B. Date of EAP on file (if available)

2. Were EAP updates provided by the dam owner during the inspection process? ☐ Yes ☒ No

3. Additional EAP Comments

## Downstream Hazard Check

1. Satellite imagery reviewed? ☒ Yes ☐ No

2A. Inundation map on file? ☒ Yes ☐ No

2B. Date of inundation map on file

3. Structures or developments observed downstream? ☒ Yes ☐ No

4. Are any other regulated dams located downstream? ☒ Yes ☐ No

5A. Roads/railways located downstream? ☒ Yes ☐ No

5B. Do any of the potentially impacted roads have average daily traffic counts greater than 400 cars/day? ☒ Yes ☐ No ☐ NA

6. Public utilities located downstream? ☒ Yes ☐ No

7. Should the dam be considered for reclassification? ☐ Yes ☒ No

### Comments:

Current high hazard classification is appropriate.

8. Additional Comments Related to the Dam's Hazard Classification

## Inspection Summary

1. Overall Condition Unsatisfactory

2. Will repair deadlines be set as a result of this inspection? ☐ Yes ☒ No

3. Will maintenance deadlines be set as a result of this inspection? ☐ Yes ☒ No

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## Inspection Summary

### 4. Final Comments

A Professional Engineer should be engaged to:

- Repair the spillway, conduit, outlet, and sinkholes.
- Repair erosion greater than 12" in depth on the downstream slope.
- Evaluate and repair the cracked auxiliary spillway.
- Develop and implement a tree management plan for trees greater than 4" in diameter.

Clear debris from the hole cut in the riser.

Cut and remove vegetation from the auxiliary spillway.

Brush, woody vegetation, and small trees should be cut and removed from the upstream slope, downstream slope, and crest.

More complete grass cover should be established on the slopes.

Monitor the condition of the inlet and outlet.

Monitor the health of the large trees.

This dam does not have an approved and current EAP on file with the Department. Please contact [desresponse@des.sc.gov](mailto:desresponse@des.sc.gov) for information on how to satisfy the EAP requirement and for assistance developing one.

-----Definitions----- (SATISFACTORY) No existing or potential dam safety deficiencies are recognized. Acceptable performance is expected under all loading conditions in accordance with state engineer's rules and regulations for dams or tolerable risk guidelines. (FAIR) No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action. (POOR) A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary. (UNSATISFACTORY) A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution. (NOT RATED) This should only be used if it is not possible to assess the dam's condition due to site constraints on access and/or visibility on the day of inspection. If excessive overgrown vegetation is one of the reasons for the Not Rated condition rating, the owner is hereby requested to perform maintenance and then notify the Department to request a reinspection.

*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 Environmental Services (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.*



SPRINGWOOD LAKE DAM (D0558)  
Violation List



Form	Determined	Description	Sec. #
Dams Preliminary Inspection Form	11/6/2025	Reference: DAMREPORT	