



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

March 12, 2013

Alva C. Kirby
2148 Heath Pond Road
Elgin, SC 29045

**RE: Kirby Pond Dam
Dam No. D-1068
Kershaw County**

Dear Mrs. Kirby:

On February 20, 2013 Harry Gaymon from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine re-inspection of Kirby Pond Dam (D-1068). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

The following was noted during the inspection:

1. Trees located on the structure will need to be evaluated by a trained professional on an individual basis, since their roots can cause "piping" of impounded water, and a falling tree can remove substantial amounts of soil, weakening the dam and possibly causing failure. Simply cutting down the trees is unacceptable, as a rotting stump can leave voids, which create animal habitat and pathways for water. Some trees may require removal, and, depending on the location of the removed trees, may require a permit from the Bureau of Water.
2. There was an eroded area on the down stream slope of the dam near the outfall pipe that needs to be monitored. It may be necessary to place suitable fill material in this area in the future.

We suggest that a routine maintenance program for the dam be established. This should include removing brush, repairing any areas of erosion (i.e. settling, cracks, slumps, cave-in, seepage, etc.), maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

Any alteration or major repairs of the dam require a permit from this agency and must be made under the direction of a qualified engineer.

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam (see attached DHEC Form 2605).

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. Please insure that the information on the Emergency Notification Plan is kept current. This should include updating

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the names and telephone numbers of the agencies listed on the Plan so that they can provide assistance if an emergency occurs. Please return an updated copy of the Emergency Notification Plan by April 12, 2013 (see attached DHEC Form 2606).

Please call if you have any further questions.

Sincerely,

A handwritten signature in black ink that reads "Harry Gaymon". The signature is written in a cursive style with a large, stylized 'H' and 'G'.

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program



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 1068 & Hazard Class II B. Name of Dam: KIRBY POND DAM
C. Inspection Date (2/20/2013) & Time: 1330 D. Date of Last Inspection: (12/23/2010)
E. Location-County/City: KERSHAW ELGIN F. EQC Regional Office: Pee Dee - SUMTER
G. Inspector's Name: Harry Haymon
H. Owner's Name: ALVA C. KIRBY
I. Contact Person (if different from above):
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 2148 HEATH POND ROAD
Address 2 (optional)
City ELGIN State SC Zip Code 29045

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? DAM CREST IS A DIRT ROAD VERY LITTLE GRASS ON CREST
ii. Animal activity observed? NO
iii. Any obvious alteration or repairs made? NO
iv. Erosion noticed on crest? NO
v. Any visible settlement, misalignment or cracks? NO

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? MOSTLY GRASS & WEEDS - ONE LARGE TREE THAT NEEDS TO BE MONITORED
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on upstream slope? NO
- v. Settlement or cracks visible in slope? NO

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? GRASS AND BRUSH
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? ONE EROSIONAL AREA THAT NEEDS TO BE WATCHED, NEAR OUTFALL
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? NO
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: NO

D. Primary Spillway

- i. Any visible deterioration of structure? NO
- ii. Is there an obvious need to repair or replace trash rack? NO
- iii. Any noticeable problems with debris? NO
- iv. Is valve or gate present? NO

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NO
- ii. Describe any deflection or damage observed to the pipe: NONE
- iii. Visible condition of outlet channel: GOOD

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NO
- ii. Animal activity observed? NO
- iii. Any noticeable deterioration in the approach or discharge channel? NO
- iv. Any visible deterioration of structure's crest? NO

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NO

vi. If applicable, any visible leakage below concrete spillway? NO

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? TO BE PROVIDED

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:

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.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

March 12, 2013

Jeff Jaco
Sarah Emanuel Trust
2600 Ridgeway Road
Ridgeway, SC 29130

**RE: Bowen Pond Dam
Dam No. D-1138
Kershaw County**

Dear Mr. Jaco:

On February 20, 2013 Harry Gaymon from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine re-inspection of Bowen Pond Dam (D-1138). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

The following was noted during the inspection:

1. Trees located on the structure will need to be evaluated by a trained professional on an individual basis, since their roots can cause "piping" of impounded water, and a falling tree can remove substantial amounts of soil, weakening the dam and possibly causing failure. Simply cutting down the trees is unacceptable, as a rotting stump can leave voids, which create animal habitat and pathways for water. Some trees may require removal, and, depending on the location of the removed trees, may require a permit from the Bureau of Water.

We suggest that a routine maintenance program for the dam be established. This should include removing brush, repairing any areas of erosion (i.e. settling, cracks, slumps, cave-in, seepage, etc.), maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

Any alteration or major repairs of the dam require a permit from this agency and must be made under the direction of a qualified engineer.

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam (see attached DHEC Form 2605).

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. Please insure that the information on the Emergency Notification Plan is kept current. This should include updating the names and telephone numbers of the agencies listed on the Plan so that they can provide assistance if an emergency occurs. Please return an updated copy of the Emergency Notification

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

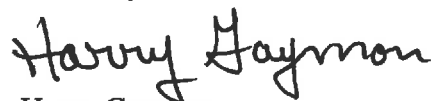
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Plan by April 12, 2013 (see attached DHEC Form 2606).

Please call if you have any further questions.

Sincerely,

A handwritten signature in black ink that reads "Harry Gaymon". The signature is written in a cursive style with a large, prominent initial "H".

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program



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: D1138 & Hazard Class II B. Name of Dam: BOWEN POND DAM
C. Inspection Date (2/20/2013) & Time: 1500 D. Date of Last Inspection: (12/23/2010)
E. Location-County/City: KERSHAW/ ELGIN F. EQC Regional Office: PEE DEE-SUMTER
G. Inspector's Name: HARRY GAYMON
H. Owner's Name: SARAH EMANUEL TRUST
I. Contact Person (if different from above): JEFF JACO
J. Dam Owner's or Contact Person's Phone Numbers: Home (803) 791-8800
Office () - - - - -
Other () - - - - -
K. Dam Owner's or Contact Person's mailing address:
Address 1 2600 RIDGEWAY ROAD
Address 2 (optional)
City RIDGEWAY State SC Zip Code 29130

Section II (Dam Condition)

General Condition Assessment (Select one of the following):
a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest
i. Vegetation (grass, trees weeds)? GRASS
ii. Animal activity observed? NO
iii. Any obvious alteration or repairs made? NO
iv. Erosion noticed on crest? NO
v. Any visible settlement, misalignment or cracks? NO

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? GRASS, WEEDS, BRUSH
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on upstream slope? NO
- v. Settlement or cracks visible in slope? NO

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? WEEDS, BRUSH (TO BE BURNED OFF SOON), NO LARGE TREES
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? NO
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? NO
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: NO

D. Primary Spillway

- i. Any visible deterioration of structure? NO
- ii. Is there an obvious need to repair or replace trash rack? NEW BOARDS RECENTLY PLACED IN SPILLWAY
- iii. Any noticeable problems with debris? NO
- iv. Is valve or gate present? GATE

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NO, RIP-RAP PLACED AROUND PIPE SINCE LAST INSPECTION
- ii. Describe any deflection or damage observed to the pipe: NONE
- iii. Visible condition of outlet channel: GOOD

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NO
- ii. Animal activity observed? NO
- iii. Any noticeable deterioration in the approach or discharge channel? NO
- iv. Any visible deterioration of structure's crest? NO

F. Auxillary (Emergency) Spillway continued

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

~~NO~~ ^{HEH} NA

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

~~NO~~ ^{HEH} NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? TO BE PROVIDED

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:

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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

September 29, 2015

Runnymede Homeowners Association
Attn: Ruben Gray
P.O. Box 2332
Sumter, S.C. 29150

RE: Routine Inspection of Dam D-1442, "Dubose Pond" Dam

Dear Mr. Gray:

As you may already be aware, the South Carolina Department of Health and Environmental Control (DHEC) is responsible for assuring all hazardous dams are properly maintained in order to prevent failure. This office performed a routine inspection of the listed dam on September 21st, 2015. Thank you for meeting me for this inspection.

Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- Several stumps are present on the dam. These should be removed and backfilled with a suitable fill material.
- There are number of trees on the dam. Trees and other deep-rooted growth on any part of a dam can create a situation that is hazardous to the integrity of the dam.
 - Trees or other woody vegetation four inches (4") or less in diameter should be cut as part of your routine maintenance program.
 - A uniform growth of grassy vegetation on both slopes, the crest, and spillway is considered an ideal cover, and should be encouraged during routine maintenance.
 - This department strongly recommends dam owners with trees establish a tree-removal plan under the guidance of a professional engineer, to safely remove trees larger than 4" (and their root systems) gradually over the course of several years.

If you are willing to submit a copy of the report of the third-party evaluation that was mentioned during this inspection, that information would allow future inspections from this office to monitor any areas that might be of concern.

Thank you for submitting a copy of the Surveillance, Emergency Notification, and Action Plan during the inspection. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency. If you need an additional copy of the plan, please contact me at this office.



Catherine E. Heigel, Director

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During the inspection, I gave you a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.

Please continue your routine maintenance program, including: removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

This dam is scheduled for another inspection in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



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 1442 & Hazard Class C2

B. Name of Dam: Dubose Pond Dam

C. Inspection Date (09 / 21 / 20 15) & Time: 10:00

D. Date of Last Inspection: (01 / 25 / 2012)

E. Location-County/City: Sumter / Sumter

F. EQC Regional Office: Sumter EQC

G. Inspector's Name: Shawn S. Frazer

H. Owner's Name: Runnymede Homeowners Association

I. Contact Person (if different from above): Ruben Gray

J. Dam Owner's or Contact Person's Phone Numbers: Home (____) ____ - ____
Office (803) 934 - 0800
Other (____) ____ - ____

K. Dam Owner's or Contact Person's mailing address:
Address 1 P.O. Box 2332
Address 2 (optional) _____
City Sumter, State S.C. Zip Code 29150 - ____

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)? grass, a couple of stumps that are rotting that should be removed and backfilled
- ii. Animal activity observed? Some small patches looked dug-up, Mr. Gray indicated they were caused by deer activity
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? None observed
- v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, trees
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? None observed
- v. Settlement or cracks visible in slope? None observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Thick vegetation, trees, at least one stump that should be removed and backfilled
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? None observed
- v. Settlement or cracks visible in slope? None observed
- vi. Toe drains flowing? No toe drains observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: One damp area just north of the outlet pipe channel should be monitored and observed when the pond is closer to full pool. Mr. Gray indicated that there had been an evaluation of the dam since the last inspection that had indicated other potential areas of concern.

D. Primary Spillway

- i. Any visible deterioration of structure? Appears acceptable
- ii. Is there an obvious need to repair or replace trash rack? Trash rack seemed to be in place, did not have a clear view.
- iii. Any noticeable problems with debris? None observed
- iv. Is valve or gate present? No gate, no valve

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Some undercutting apparent, couldn't determine if seepage was the cause due to steep slope and thick vegetation.
- ii. Describe any deflection or damage observed to the pipe: None observed
- iii. Visible condition of outlet channel: Appears okay

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? N/A: No emergency or runaround spillway.
- ii. Animal activity observed? N/A
- iii. Any noticeable deterioration in the approach or discharge channel? N/A
- iv. Any visible deterioration of structure's crest? N/A

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

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

The Sumter-Lee detention center was built 10+ years ago, but is on the edge of the potential inundation zone.

Additional checking may be necessary to determine if this warrants reclassifying to High Hazard.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes, 2015

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

Section IV (Conclusions)

General comments and recommendations:

Pond level is approximately 1' low.

The dam appears to be in good condition. The damp area just north of the outlet pipe should be monitored for seepage, and the stumps should be removed and backfilled.

Mr. Gray indicated that he would be willing to send in a copy of the 3rd party inspection of the dam which may have located areas that might need to be monitored for developing or active seepage.

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

October 1, 2015

Sumter County
Attn: Eddie Newman, Randy Wright
1289 North Main Street
Sumter, S.C. 29150

RE: Routine Inspection of Dam D-1444, "Second Millpond" Dam

Dear Messrs. Newman and Wright:

As you may already be aware, the South Carolina Department of Health and Environmental Control (DHEC) is responsible for assuring all hazardous dams are properly maintained in order to prevent failure. This office performed a routine inspection of the listed dam on Tuesday, September 22nd, 2015. Thank you for meeting me for this inspection.

Enclosed you will find the inspection report, which lists any comments or concerns about the dam.

When completed, please mail a copy of the Surveillance, Emergency Notification, and Action Plan with original signatures to our Sumter office. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency. If you need an additional copy of the plan, please contact me at this office.

During the inspection, I gave you a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.

Please continue your routine maintenance program, including: removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.); maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

This dam is scheduled for another inspection in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



**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 1444 & Hazard Class C2

B. Name of Dam: Second Millpond Dam

C. Inspection Date (09/22/2015) & Time: 10:00

D. Date of Last Inspection: (01/23/2012)

E. Location-County/City: Sumter / Sumter

F. EQC Regional Office: Sumter EQC

G. Inspector's Name: Shawn S. Frazer

H. Owner's Name: Sumter County

I. Contact Person (if different from above): Eddie Newman, Randy Wright

J. Dam Owner's or Contact Person's Phone Numbers: Home (___) ___ - ___
 Office (803) 436 - 2241
 Other (___) ___ - ___

K. Dam Owner's or Contact Person's mailing address:
 Address 1 1289 North Main Street
 Address 2 (optional) _____
 City Sumter, State SC Zip Code 29150 - _____

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)? Asphalt road over the dam.
- ii. Animal activity observed? None observed
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? None observed
- v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? grass, riprap
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? None observed
- v. Settlement or cracks visible in slope? None observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? grass, weeds (trimmed yearly during winter)
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? None observed
- v. Settlement or cracks visible in slope? None observed
- vi. Toe drains flowing? No toe drains were found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None observed

D. Primary Spillway

- i. Any visible deterioration of structure? Minor amounts of seepage through concrete joints or cracks. Talking to Randy, they'll be grouted next available opportunity when the pool is lowered.
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No significant debris, smaller items will be cleared once yearly during general maintenance
- iv. Is valve or gate present? Gates operated by lifts, only inner gates are worked to lower the level, malfunction of the outer gate

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No outlet pipe, concrete spillway under road.
- ii. Describe any deflection or damage observed to the pipe: N/A
- iii. Visible condition of outlet channel: Outlet channel looks good. No visible erosion, concrete seems structurally sound.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? N/A: Primary spillway only
- ii. Animal activity observed? N/A
- iii. Any noticeable deterioration in the approach or discharge channel? N/A
- iv. Any visible deterioration of structure's crest? N/A

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No, gave a copy during the inspection

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? N/A

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? N/A

Section IV (Conclusions)

General comments and recommendations:

Dam appears to be in excellent condition and at normal pool elevation.

Pool level is lowered every other year, the lower portion of the spillway should be inspected for cracks and damage at next occurrence.

The cracks that are leaking appear to be small and don't appear to be an imminent problem, but most concrete repairs involve the injection of polyurethane or epoxy fill into the concrete under pressure in order to completely fill the cracks. Only grouting the surface of the cracking typically is not an effective long-term solution. I would recommend consulting with a licensed professional engineer to evaluate the extent of the cracking and to determine if more extensive repairs are necessary.

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

September 30, 2015

Loring Mill Pond Association
Attn: O. Mack Kolb, Wayne Harbour
3385 Gristmill Lane
Sumter, S.C. 29150

RE: Routine Inspection of Dam D-1452, "Loring Mill Pond" Dam

Dear Mr. Kolb:

As you may already be aware, the South Carolina Department of Health and Environmental Control (DHEC) is responsible for assuring all hazardous dams are properly maintained in order to prevent failure. This office performed a routine inspection of the listed dam on Wednesday, September 23rd, 2015. Thank you for meeting me for this inspection.

Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- The trash rack has been raised, and should be lowered into place in front of the spillway.
- The concrete pilings that support the back side of the gate system appear to be eroding or deteriorating in some places, particularly the northernmost columns.
- There are several stumps of fallen trees on the downstream slope that should be removed and backfilled with a suitable fill material.
- There are number of trees on the dam. Trees and other deep-rooted growth on any part of a dam can create a situation that is hazardous to the integrity of the dam.
 - Trees or other woody vegetation four inches (4") or less in diameter should be cut as part of your routine maintenance program.
 - A uniform growth of grassy vegetation on both slopes, the crest, and spillway is considered an ideal cover, and should be encouraged during routine maintenance.
 - This department strongly recommends dam owners with trees establish a tree-removal plan under the guidance of a professional engineer, to safely remove trees larger than 4" (and their root systems) gradually over the course of several years.

Thank you for returning a copy of the Surveillance, Emergency Notification, and Action Plan at the inspection. You should keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency. If you need an additional copy of the plan, please contact me at this office.

Enclosed is a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Please continue your routine maintenance program, including: removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

Any alteration or major repair of the dam requires a permit from this agency and must be made under the direction of a professional engineer.

This dam is scheduled for another inspection in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Main Office: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



**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 1452 & Hazard Class C2
B. Name of Dam: Loring Millpond Dam
C. Inspection Date (09/23/2015) & Time: 10:00
D. Date of Last Inspection: (01/24/2012)
E. Location-County/City: Sumter / Sumter
F. EQC Regional Office: Sumter EQC
G. Inspector's Name: Shawn S Frazer
H. Owner's Name: Loring Mill Pond Association
I. Contact Person (if different from above): O. Mack Kolb / Wayne Harbour
J. Dam Owner's or Contact Person's Phone Numbers: W. Harbour ~~####~~ (803) 607 - 9574
Office () - -
M. Kolb Cell ~~####~~ (803) 491 - 5409
K. Dam Owner's or Contact Person's mailing address:
Address 1 3345 Gristmill Lane
Address 2 (optional) _____
City Sumter , State S.C. Zip Code 29150 - -

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)? Patches of grass, dirt path, vegetation
ii. Animal activity observed? None observed
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees, brush
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? None observed
- v. Settlement or cracks visible in slope? None observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, thick vegetation, brush, some rotting stumps from fallen trees.
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? None observed
- v. Settlement or cracks visible in slope? None observed
- vi. Toe drains flowing? No toe drains observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None

D. Primary Spillway

- i. Any visible deterioration of structure? Trash rack is currently lifted out of the water above the gate. Rack should be lowered and used.
- ii. Is there an obvious need to repair or replace trash rack? Trash rack appears to be in good condition, but out of the water.
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Gate system. The concrete pilings that support the gate system from the downstream side are very eroded in some areas. (Particularly upstream-right side of the gates.)

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No discharge pipe, gate directly to outlet channel
- ii. Describe any deflection or damage observed to the pipe: N/A
- iii. Visible condition of outlet channel: Channel is in good condition, but see D-4 for condition of pilings.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None observed
- ii. Animal activity observed? None observed
- iii. Any noticeable deterioration in the approach or discharge channel? None observed
- iv. Any visible deterioration of structure's crest? None observed

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? Concrete outlet pipe under path, none observed

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes, 2015

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

Section IV (Conclusions)

General comments and recommendations:

There are a significant number of trees on the dam. Recommend a tree-removal program.

Stumps from trees on a dam, whether from cut or naturally-fallen trees, decay over time and create voids in the dam. All stumps should be removed and backfilled with an appropriate fill material.

Owner provided a copy of the Memorandum of Understanding with several dam owners above Second Millpond and Sumter County.

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

September 28, 2015

Dinkins Family Trust
Attn: Charles Dinkins
6920 Dinkins Mill Road
Rembert, S.C. 29128

RE: Routine Inspection of Dam D-1461, "Dinkins Mill Pond" Dam

Dear Mr. Dinkins:

As you may already be aware, the South Carolina Department of Health and Environmental Control (DHEC) is responsible for assuring all hazardous dams are properly maintained in order to prevent failure. This office performed a routine inspection of the listed dam on Monday, September 21st, 2015. Thank you for meeting me for this inspection.

Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- There have been repairs made recently to the dam. Based on the information provided during the inspection, the repair included: excavating from the crest down the upstream slope, replace a six foot (6') section of the corrugated pipe running from the riser to the outlet next to the old millhouse, and filling back in the area.
- There are number of trees on the downstream slope. Trees and other deep-rooted growth on any part of a dam can create a situation that is hazardous to the integrity of the dam.
 - Trees or other woody vegetation four inches (4") or less in diameter should be cut as part of your routine maintenance program.
 - A uniform growth of grassy vegetation on both slopes, the crest, and spillway is considered an ideal cover, and should be encouraged during routine maintenance.
 - This office strongly recommends dam owners with trees establish a tree-removal plan under the guidance of a professional engineer, to safely remove trees larger than 4" (and their root systems) gradually over the course of several years.

Because the mentioned repairs made to the dam were done without a permit, pursuant to the S.C. Dams and Reservoirs Safety Act, the department is requiring you to hire a Professional Engineer (registered in the state of South Carolina) to perform an evaluation of the condition of the dam with repairs in place. A report from the engineer must be submitted to me within **one hundred and twenty (120) days** of receipt of this letter. The report should include the results of the detailed inspection and a repair plan (if warranted). If repairs are warranted, a permit may be required in order to perform the repairs. I will review the report and then forward it to central office for approval. I am including a list of professional engineers with this report. This list is not all-inclusive, and you are not required to use someone from this list.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

When completed, please mail a copy of the Surveillance, Emergency Notification, and Action Plan **with original signatures** to our Sumter office. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency. If you need an additional copy of the plan, please contact me at this office.

Enclosed is a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.

Please continue a routine maintenance program, including: removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

This dam is scheduled for another inspection in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



**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 1461 & Hazard Class C2 B. Name of Dam: Dinkins Mill Pond Dam

C. Inspection Date (09/21/2015) & Time: 01:00 PM D. Date of Last Inspection: (01/23/2012)

E. Location-County/City: Sumter / Rembert F. EQC Regional Office: Sumter EQC

G. Inspector's Name: Shawn S. Frazer

H. Owner's Name: Dinkins Family Trust

I. Contact Person (if different from above): Charles Dinkins

J. Dam Owner's or Contact Person's Phone Numbers: Home () - - - - -
Office () - - - - -
Other (803) 983 - 9450

K. Dam Owner's or Contact Person's mailing address:

Address 1 6920 Dinkins Mill Road

Address 2 (optional) _____

City Rembert, State SC Zip Code 29128 - - - - -

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)? Grass, weeds.
- ii. Animal activity observed? None observed.
- iii. Any obvious alteration or repairs made? Repairs made to the riser spillway at the old mill, Mr. Dinkins said a section of pipe was crushed by a tree falling across it. The area had been excavated, the pipe replaced, and rebuilt within the past year.
- iv. Erosion noticed on crest? None observed
- v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, weeds, too thick to thoroughly inspect
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? Same as A-3. No others observed.
- iv. Erosion observed on upstream slope? Too thickly vegetated along length to determine,
- v. Settlement or cracks visible in slope? None observed.

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Thick vegetation, trees. Grass on old road path.
- ii. Animal activity observed? None observed.
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? None observed.
- v. Settlement or cracks visible in slope? None observed.
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: One area that looked damp on back side of dam, from the area of concrete fill, apparently from a location the dam had failed previously.
Approximately 1/3 of the way down the dam from north end.

D. Primary Spillway

- i. Any visible deterioration of structure? South gate system, the concrete is well-worn in several places, there is a small leak around the side of the gate that might lead to further erosion of the area.
- ii. Is there an obvious need to repair or replace trash rack? No trash rack present on riser spillway.
- iii. Any noticeable problems with debris? None observed.
- iv. Is valve or gate present? Gate system, Charles said it was worked yearly to lower the lake to kill weeds.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Riser spillway: None observed.
Gate spillway: minor leak underneath gate mechanism
- ii. Describe any deflection or damage observed to the pipe: Riser pipe terminates inside old mill structure, could not observe.
- iii. Visible condition of outlet channel: Riser pipe channel is fine, gate channel has some concrete erosion/deterioration that should be monitored.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None, was cleared prior to the inspection.
- ii. Animal activity observed? None observed
- iii. Any noticeable deterioration in the approach or discharge channel? Grass or other shallow-rooted vegetative growth should be encouraged and maintained along the length of the spillway
- iv. Any visible deterioration of structure's crest? None observed.

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? None observed.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No, covered with Mr. Dinkins during the inspection, he will complete and mail in a signed copy.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? N/A

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? N/A

Section IV (Conclusions)

General comments and recommendations:

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment

February 14, 2012

Cains Mill Club
c/o Lathan Roddy, Sec.-Treas.
P.O. Box 70
Sumter, SC 29151

**RE: Cains Millpond Dam
Dam No. D-1578
Sumter County**

Dear Mr. Roddy:

On January 26, 2012 Harry Gaymon from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine inspection of Cains Millpond Dam (D-1578). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

The following was noted during the inspection:

1. There is heavy growth on the slopes of the dam which prohibit surveying the embankments for problems such as sink holes, cracks, slumps, seepage, etc. All brush and trees, six (6) inches or less in diameter should be removed from the slopes.
2. A trash guard should be placed in front of the spillway to prevent debris from interfering with the flow of water over the spillway. An example of such a guard would be concrete reinforcement wire having openings 6 inches by 6 inches.
3. There is an area of erosion on the crest of the dam towards the down slope that needs to be repaired.
4. The Emergency Notification Plan needs to be updated and forwarded to the Department.

We suggest that a routine maintenance program for the dam be established. This should include removing brush and small trees, repairing any areas of erosion (i.e. settling, cracks, slumps, cave-in, seepage, etc.), maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Region 4

Serving Chesterfield, Clarendon, Darlington, Dillon, Florence, Kershaw, Lee, Marion, Marlboro and Sumter Counties
Sumter EQC Office • PO Box 1628 • 105 N. Magnolia Street • Sumter, SC 29151 • Phone: (803) 778-6548 • www.scdhec.gov


Any alteration or major repairs of the dam require a permit from this agency and must be made under the direction of a qualified engineer.

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam (see attached DHEC Form 2605).

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. Please insure that the information on the Emergency Notification Plan is kept current. This should include updating the names and telephone numbers of the agencies listed on the Plan so that they can provide assistance if an emergency occurs. Please return an updated copy of the Emergency Notification Plan by March 10, 2012 (see attached DHEC Form 2606).

Please call if you have any further questions.

Sincerely,

A handwritten signature in cursive script that reads "Harry Gaymon".

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program



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 1578 & Hazard Class II B. Name of Dam: Cains Mill Pond Dam
C. Inspection Date (1/26/2012) & Time: 1400 D. Date of Last Inspection: (10/16/2008)
E. Location-County/City: Sumter / Sumter F. EQC Regional Office: Region IV, Sumter
G. Inspector's Name: Harry Gayman
H. Owner's Name: Cains Mill Club
I. Contact Person (if different from above): Lathan Roddy
J. Dam Owner's or Contact Person's Phone Numbers: Home () Office (803) 775-1168 Other ()
K. Dam Owner's or Contact Person's mailing address: Address 1 P.O. Box 70 Address 2 (optional) City Sumter State SC Zip Code 29151-

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? grass
ii. Animal activity observed? no
iii. Any obvious alteration or repairs made? no
iv. Erosion noticed on crest? one area of erosion that needs to be watched
v. Any visible settlement, misalignment or cracks? no

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? heavy growth of reeds @ dam and edge of water - visual inspection of dam slope restricted
- ii. Animal activity observed? no
- iii. Any obvious alterations or repairs made? no
- iv. Erosion observed on upstream slope? no
- v. Settlement or cracks visible in slope? no

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? trees, vines, weeds, brush - visual examination of D.S.S. restricted
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? NO
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? NO
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow. NO

D. Primary Spillway

- i. Any visible deterioration of structure? NO
- ii. Is there an obvious need to repair or replace trash rack? does not have trash rack
- iii. Any noticeable problems with debris? NO
- iv. Is valve or gate present? gate (boards)

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NO
- ii. Describe any deflection or damage observed to the pipe: NONE
- iii. Visible condition of outlet channel: good

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NONE
- ii. Animal activity observed? NONE
- iii. Any noticeable deterioration in the approach or discharge channel? NONE
- iv. Any visible deterioration of structure's crest? NONE

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NO

vi. If applicable, any visible leakage below concrete spillway? NO

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? yes

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

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

Section IV (Conclusions)

General comments and recommendations:

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.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

March 12, 2013

John W. Harvin Trust
1300 Fulton Avenue
Kingstree, SC 29556

**RE: Harvin Dam
Dam No. D-1973
Sumter County**

To Whom It May Concern:

On February 20, 2013 Harry Gaymon from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine re-inspection of Harvin Dam (D-1973). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

The following was noted during the inspection:

1. Trees located on the structure will need to be evaluated by a trained professional on an individual basis, since their roots can cause "piping" of impounded water, and a falling tree can remove substantial amounts of soil, weakening the dam and possible causing failure. Simply cutting down the trees is unacceptable, as a rotting stump can leave voids, which create animal habitat and pathways for water. Some trees may require removal, and, depending on the location of the removed trees, may require a permit from the Bureau of Water.
2. Debris needs to be removed from the emergency spillway.
3. A rotting stump next to the emergency spillway needs to be removed and the void replaced with suitable fill material.

We suggest that a routine maintenance program for the dam be established. This should include removing brush, repairing any areas of erosion (i.e. settling, cracks, slumps, cave-in, seepage, etc.), maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

Any alteration or major repairs of the dam require a permit from this agency and must be made under the direction of a qualified engineer.

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam (see attached DHEC Form 2605).

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. Please insure that the

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

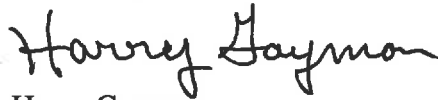
Region 4

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information on the Emergency Notification Plan is kept current. This should include updating the names and telephone numbers of the agencies listed on the Plan so that they can provide assistance if an emergency occurs. Please return an updated copy of the Emergency Notification Plan by April 12, 2013 (see attached DHEC Form 2606).

Please call if you have any further questions.

Sincerely,

A handwritten signature in black ink that reads "Harry Gaymon". The signature is written in a cursive style with a large, prominent "H" and "G".

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program



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 1973 & Hazard Class II B. Name of Dam: HARVIN DAM
C. Inspection Date (2/20/2013) & Time: 1200 D. Date of Last Inspection: (12/2/2010)
E. Location-County/City: SUMTER/REMBERT F. EQC Regional Office: PEE DEE, SUMTER
G. Inspector's Name: HARRY GAYMON
H. Owner's Name: JOHN W. HARVIN TRUST
I. Contact Person (if different from above): NONE AVAILABLE
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 1300 FULTON AVE.
Address 2 (optional)
City KINGSTREE State SC Zip Code 29556

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? NUMEROUS LARGE TREES, BRUSH, WEEDS
ii. Animal activity observed? NO
iii. Any obvious alteration or repairs made? NO
iv. Erosion noticed on crest? NO
v. Any visible settlement, misalignment or cracks? NO

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? BRUSH NUMEROUS LARGE TREES,
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on upstream slope? NO
- v. Settlement or cracks visible in slope? NO

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? BRUSH AND WEEDS
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? NO
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? NO
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: NO

D. Primary Spillway

- i. Any visible deterioration of structure? NO
- ii. Is there an obvious need to repair or replace trash rack? NO
- iii. Any noticeable problems with debris? GRASS, WEEDS, TRASH AND
NO
- iv. Is valve or gate present? GATE

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NO
- ii. Describe any deflection or damage observed to the pipe: NO
- iii. Visible condition of outlet channel: GOOD

F. Auxilliary (Emergency) Spillway

- i. Noticeable obstructions to flow? GRASS, WEED, TRASH
- ii. Animal activity observed? NO
- iii. Any noticeable deterioration in the approach or discharge channel? ROTTING STUMP
NEXT TO SPILLWAY
- iv. Any visible deterioration of structure's crest? NO

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NO

vi. If applicable, any visible leakage below concrete spillway? NO

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? TO BE PROVIDED

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:

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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

September 17, 2015

Lake Cherryvale Homeowner's Association
Attn: Don Vargas
4216 North Lake Cherryvale Drive
Sumter, S.C. 29154

RE: Routine Inspection of Dam D-1986, "Lake Cherryvale" Dam

Dear Mr. Vargas:

As you are aware, this office performed a routine inspection of the listed dam on September 16th, 2015. Thank you for meeting me for this inspection. Generally, the dam appears in good condition, and based on this inspection, it was rated as 'Fair.' You are commended for being proactive in your general maintenance of the dam. Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- There are several new decaying stumps on the upstream half of the crest that have created voids in the dam. The stumps need to be removed and the holes filled with a suitable compactable fill material.
- There are a number of trees on the dam's crest and on the downstream slope in the area near the outlet pipe. Trees and other deep-rooted growth on any part of a dam can create a situation that is hazardous to the integrity of the dam.
 - Trees or other woody vegetation four inches (4") or less in diameter should be cut as part of your routine maintenance program.
 - A uniform growth of grassy vegetation on both slopes, the crest, and spillway is considered an ideal cover, and should be encouraged during routine maintenance.
 - This office strongly recommends dam owners with trees establish a tree-removal plan under the guidance of a professional engineer, to safely remove trees larger than 4" and their root systems gradually over the course of several years.

Enclosed is a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.

Please continue your routine maintenance program, including: removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

This dam is scheduled for another inspection in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



**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 1986 & Hazard Class C2 B. Name of Dam: Lake Cherryvale Dam

C. Inspection Date (09 / 16 / 20 15) & Time: 10:00 D. Date of Last Inspection: (02 / 08 / 2012)

E. Location-County/City: Sumter / Sumter F. EQC Regional Office: Sumter EQC

G. Inspector's Name: Shawn S. Frazer

H. Owner's Name: Lake Cherryvale Homeowner's Association

I. Contact Person (if different from above): Don Vargas

J. Dam Owner's or Contact Person's Phone Numbers: Home (803) 236 - 3848
Office () -
Other () -

K. Dam Owner's or Contact Person's mailing address:

Address 1 4216 North Lake Cherryvale Drive

Address 2 (optional)

City Sumter , State SC Zip Code 29154 -

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)? Cover of grass. Trees on the upstream half of the crest/slope.
- ii. Animal activity observed? Dogs on downstream side of fence, no damage observed.
- iii. Any obvious alteration or repairs made? Stump in previous inspection removed & backfilled. Several other trees cut or fallen that should also be removed and backfilled. Photographed.
- iv. Erosion noticed on crest? None observed
- v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, trees (as on crest)
- ii. Animal activity observed? None observed.
- iii. Any obvious alterations or repairs made? (See A-iii)
- iv. Erosion observed on upstream slope? None observed
- v. Settlement or cracks visible in slope? None observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, some trees around outlet pipe.
- ii. Animal activity observed? Dogs, no damage observed.
- iii. Any obvious alterations or repairs made? None observed
- iv. Erosion observed on down stream slope? None observed
- v. Settlement or cracks visible in slope? None observed
- vi. Toe drains flowing? Toe drain dripping into lower pond, slow flow, approximately one drip every ten seconds
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No seepage observed, no soggy areas observed on downstream slope.

D. Primary Spillway

- i. Any visible deterioration of structure? Minor leak around the bottom board of the riser.
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? None observed.
- iv. Is valve or gate present? Removable boards

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? None observed.
- ii. Describe any deflection or damage observed to the pipe: No undercutting observed under pipe, but water streams down slope beneath to settling basin. Trees in vicinity of outlet pipe.
- iii. Visible condition of outlet channel: No sign of erosion or settling, flows directly into small pond below dam.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Chain-link fence crosses emergency spillway, should allow sufficient flow as long as area is kept clear of debris.
- ii. Animal activity observed? None observed.
- iii. Any noticeable deterioration in the approach or discharge channel? None observed.
- iv. Any visible deterioration of structure's crest? None observed.

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes, at inspection.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes, 2015

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

Section IV (Conclusions)

General comments and recommendations:

Lake level is particularly low, Don indicated to me that there had been a ditch created across a main source of water for the lake, and that resulted in decreasing the water entering into the reservoir.

The items noted in the previous inspection seem to have all been addressed.

There are now two additional stumps on the upstream slope of the dam that are creating voids and need to be removed and compacted with an appropriate backfill.

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name: Enter the name of the person performing the inspection.
- H) Owner's Name: Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

September 25, 2015

Upper Deerfield Lake Association
Attn: Marshall Wallace
23 Pathfinder Drive
Sumter, S.C. 29150

RE: Routine Inspection of Dam D-1991, "Upper Deerfield Lake" Dam

Dear Dr. Wallace :

As you may already be aware, the South Carolina Department of Health and Environmental Control (DHEC) is responsible for assuring all hazardous dams are properly maintained in order to prevent failure. This office performed a routine inspection of the listed dam on Friday, September 18th. Thank you for meeting me for this inspection. There are sections of the dam that need maintenance, but based on this inspection, it was rated as 'Fair.' Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- There are significant areas of erosion and loose, bare soil on the downstream slope of the dam. The eroded areas need to be repaired, and it is strongly recommended that a uniform cover of grass or other shallow-rooted, low-growing vegetation be encouraged on all surfaces of the dam. This type of vegetation helps stabilize the surface soil and control erosion.
- There are several voids on the downstream slope and decaying stumps on both slopes. The stumps should be removed and the holes and cavities backfilled with a suitable compactable fill material.
- There are number of trees on the dam. Trees and other deep-rooted growth on any part of a dam can create a situation that is hazardous to the integrity of the dam. This office strongly recommends dam owners with trees establish a tree-removal plan under the guidance of a professional engineer, to safely remove trees larger than 4" and their root systems gradually over the course of several years.

Thank you for returning the Surveillance, Emergency Notification, and Action Plan to me. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency. If you need an additional copy of the plan, please contact me at this office.

Enclosed is a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Please continue your routine maintenance program, including: removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

Any alteration or major repair of the dam requires a permit from this agency and must be made under the direction of a qualified engineer.

This dam is scheduled for another inspection in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



**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 1991 & Hazard Class C2
B. Name of Dam: Upper Deerfield Lake Dam
C. Inspection Date (09 / 18 / 20 15) & Time: 2:00 PM
D. Date of Last Inspection: (03 / 19 / 2012)
E. Location-County/City: Sumter / Sumter
F. EQC Regional Office: Sumter EQC
G. Inspector's Name: Shawn S. Frazer
H. Owner's Name: Upper Deerfield Lake Association
I. Contact Person (if different from above): Marshall Wallace
J. Dam Owner's or Contact Person's Phone Numbers: Home () - - - - -
Office (803) 469 - 9461
Other () - - - - -
K. Dam Owner's or Contact Person's mailing address:
Address 1 23 Pathfinder Drive
Address 2 (optional) _____
City Sumter, State SC Zip Code 29150 - - - - -

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)? Asphalt, trees
ii. Animal activity observed? None observed
iii. Any obvious alteration or repairs made? None observed
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees, dirt, patches of grass
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No recent changes observed. (Some cut stumps, but they look old.)
- iv. Erosion observed on upstream slope? Exposed dirt with no grass cover or other erosion control
- v. Settlement or cracks visible in slope? Slump on the left side, relative to downstream direction

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, dirt, patches of grass. One thick patch of vegetation and trees on the downstream side of the southern abutment that could not be inspected, this area should be cut back during routine maintenance.
- ii. Animal activity observed? Cavity in a slide/eroded area on the upper half of the slope looks to intersect a burrow of some kind of small rodent.
- iii. Any obvious alterations or repairs made? No recent changes observed. (Some cut stumps, but they look old.)
- iv. Erosion observed on down stream slope? One area is eroding particularly quickly and also a cavity revealed and then where the toe meets the water, there was another crack/void in the ground. Along the upper half, areas of loose soil that sink underfoot.
- v. Settlement or cracks visible in slope? Some slides in the area of erosion towards the middle of the downstream slope.
- vi. Toe drains flowing? No toe drains observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None observed

D. Primary Spillway

- i. Any visible deterioration of structure? None observed.
- ii. Is there an obvious need to repair or replace trash rack? No.
- iii. Any noticeable problems with debris? No.
- iv. Is valve or gate present? None observed on spillway.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? None observed
- ii. Describe any deflection or damage observed to the pipe: Pipe is partially obstructed with riprap and leafy debris, and should be cleared at the next possible opportunity.
- iii. Visible condition of outlet channel: Save for partial obstruction with pinestraw and riprap rocks, it looks good. Drains directly into lower lake.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? N/A
- ii. Animal activity observed? N/A
- iii. Any noticeable deterioration in the approach or discharge channel? N/A
- iv. Any visible deterioration of structure's crest? N/A

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

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

Potentially: Lower Deerfield Lake Dam (D-2078) has recently had a house built on the downstream slope

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes, 2015

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

Section IV (Conclusions)

General comments and recommendations:

Need to encourage a uniform cover of grass on the areas with bare dirt and pine straw. Particularly on the downstream slope, the soil feels very loose in some places, and a thick uniform layer of grass strengthens the dam against erosion.

The stumps on the upstream and downstream slopes should be removed and backfilled with compacted an appropriate fill.

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.

Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

March 12, 2013

Charles Bostic
Lower Deerfield Lake Homeowners Association
724 Antlers Drive
Sumter, SC 29150

**RE: Lower Deerfield Lake Dam
Dam No. D-2078
Sumter County**

Dear Mr. Bostic:

On February 20, 2013 Harry Gaymon from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine re-inspection of Lower Deerfield Lake Dam (D-2078). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

The following was noted during the inspection:

1. Trees located on the structure will need to be evaluated by a trained professional on an individual basis, since their roots can cause "piping" of impounded water, and a falling tree can remove substantial amounts of soil, weakening the dam and possibly causing failure. Simply cutting down the trees is unacceptable, as a rotting stump can leave voids, which create animal habitat and pathways for water. Some trees may require removal, and, depending on the location of the removed trees, may require a permit from the Bureau of Water.
2. There are weeds growing on the outlet pipe trash rack that need to be removed.

We suggest that a routine maintenance program for the dam be established. This should include removing brush, repairing any areas of erosion (i.e. settling, cracks, slumps, cave-in, seepage, etc.), maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

Any alteration or major repairs of the dam require a permit from this agency and must be made under the direction of a qualified engineer.

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam (see attached DHEC Form 2605).

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. Please insure that the information on the Emergency Notification Plan is kept current. This should include updating

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

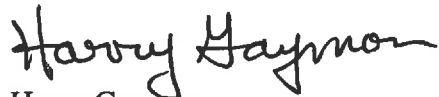
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the names and telephone numbers of the agencies listed on the Plan so that they can provide assistance if an emergency occurs. Please return an updated copy of the Emergency Notification Plan by April 12, 2013 (see attached DHEC Form 2606).

Please call if you have any further questions.

Sincerely,

A handwritten signature in black ink that reads "Harry Gaymon". The signature is written in a cursive style with a long, sweeping underline.

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program



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 2078 & Hazard Class II B. Name of Dam: LOWER DEERFIELD LAKE DAM
C. Inspection Date (2/20/2013) & Time: 1000 D. Date of Last Inspection: (12/7/2010)
E. Location-County/City: SUMTER / SUMTER F. EQC Regional Office: REGION II, SUMTER
G. Inspector's Name: HARRY GAYMON
H. Owner's Name: LOWER DEERFIELD LAKE HOMEOWNERS ASSOCIATION
I. Contact Person (if different from above): CHARLES BOSTIC
J. Dam Owner's or Contact Person's Phone Numbers: Home (803) 775-8371
Office () Other ()
K. Dam Owner's or Contact Person's mailing address:
Address 1 724 ANTLERS DRIVE
Address 2 (optional)
City SUMTER State SC Zip Code 29150

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? PAVED - ANTLERS ROAD - RED TIPS PLANTED ON UPSLOPE SIDE OF CREST
ii. Animal activity observed? NO
iii. Any obvious alteration or repairs made? NO
iv. Erosion noticed on crest? NO
v. Any visible settlement, misalignment or cracks? NO

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? RED TIPS NEAR CREST, GRASS
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on upstream slope? NO
- v. Settlement or cracks visible in slope? NO

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? BRUSH AND LARGE TREES
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? NO
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? NO
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: NO

D. Primary Spillway

- i. Any visible deterioration of structure? NO
- ii. Is there an obvious need to repair or replace trash rack? NO
- iii. Any noticeable problems with debris? WEEDS GROWING ON TRASH RACK
- iv. Is valve or gate present? NO

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NO
- ii. Describe any deflection or damage observed to the pipe: NONE
- iii. Visible condition of outlet channel: GOOD - OUTLET PIPE REINFORCED WITH RIP-RAP

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? THERE IS NO AUXILIARY SPILLWAY
- ii. Animal activity observed? NA
- iii. Any noticeable deterioration in the approach or discharge channel? NA
- iv. Any visible deterioration of structure's crest? NA

F. Auxiliary (Emergency) Spillway continued

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

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

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? YES

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? YES
1-30-13

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

Section IV (Conclusions)

General comments and recommendations:

LARGE TREES ON DOWNSLOPE IS A
POTENTIAL PROBLEM - NEEDS EVALUATION
BY TRAINED PROFESSIONAL

Preliminary Dam Inspection Disclaimer:

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Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

March 12, 2013

Sue Hornsby
Phoenix Services Inc.
1111 Broad Street, PO Box 643
Camden, SC 29021

**RE: McGirt's Millpond Dam
Dam No. D-2407
Lee County**

Dear Mrs. Hornsby:

On February 21, 2013 Harry Gaymon from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine re-inspection of McGirt's Millpond Dam (D-2407). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

The following was noted during the inspection:

1. Trees located on the structure will need to be evaluated by a trained professional on an individual basis, since their roots can cause "piping" of impounded water, and a falling tree can remove substantial amounts of soil, weakening the dam and possibly causing failure. Simply cutting down the trees is unacceptable, as a rotting stump can leave voids, which create animal habitat and pathways for water. Some trees may require removal, and, depending on the location of the removed trees, may require a permit from the Bureau of Water.
2. There were two eroded areas on the crest of the dam located on the down streamside of the bridge that need to be filled with suitable fill material.

We suggest that a routine maintenance program for the dam be established. This should include removing brush, repairing any areas of erosion (i.e. settling, cracks, slumps, cave-in, seepage, etc.), maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

Any alteration or major repairs of the dam require a permit from this agency and must be made under the direction of a qualified engineer.

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam (see attached DHEC Form 2605).

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. Please insure that the

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information on the Emergency Notification Plan is kept current. This should include updating the names and telephone numbers of the agencies listed on the Plan so that they can provide assistance if an emergency occurs. Please return an updated copy of the Emergency Notification Plan by April 12, 2013 (see attached DHEC Form 2606).

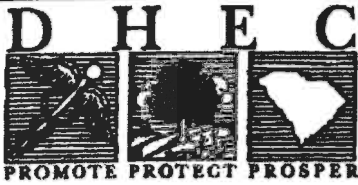
Please call if you have any further questions.

Sincerely,

A handwritten signature in black ink that reads "Harry Gaymon". The signature is written in a cursive style with a long horizontal flourish at the end.

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program



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: D2407 & Hazard Class II B. Name of Dam: MCGIRT'S MILLPOND DAM
C. Inspection Date (2/21/2013) & Time: D. Date of Last Inspection: (12/1/2010)
E. Location-County/City: LEE BISHOPVILLE F. EQC Regional Office: REGION II, SUMTER
G. Inspector's Name: HARRY GAYMON
H. Owner's Name: PHOENIX SERVICES INC.
I. Contact Person (if different from above): SUE HORNSBY
J. Dam Owner's or Contact Person's Phone Numbers: Home Office (803) 425 1115 Other
K. Dam Owner's or Contact Person's mailing address: Address 1 1111 BROAD ST. PO BOX 643 Address 2 (optional) City CAMDEN State SC Zip Code 29021

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? DAM CREST IS SC HWY 441, GRASS BESIDE HWY
ii. Animal activity observed? NO
iii. Any obvious alteration or repairs made? NO
iv. Erosion noticed on crest? NO
v. Any visible settlement, misalignment or cracks? SEVERAL AREAS NEED FILL DIRT NEXT TO DOWNSTREAM SIDE OF BRIDGE AT OUTFALL

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? GRASS, BRUSH, WEEDS, SEVERAL LARGE TREES
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on upstream slope? NO
- v. Settlement or cracks visible in slope? NO

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? GRASS, BRUSH, WEEDS
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? NO
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? NO
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: NO

D. Primary Spillway

- i. Any visible deterioration of structure? NO
- ii. Is there an obvious need to repair or replace trash rack? NO
- iii. Any noticeable problems with debris? _____
- iv. Is valve or gate present? YES

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NO
- ii. Describe any deflection or damage observed to the pipe: NONE
- iii. Visible condition of outlet channel: GOOD

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NO
- ii. Animal activity observed? NO
- iii. Any noticeable deterioration in the approach or discharge channel? NO
- iv. Any visible deterioration of structure's crest? NO

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NO

vi. If applicable, any visible leakage below concrete spillway? NO

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? NEED UPDATED EAP

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? 6-20-11

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? NO

Section IV (Conclusions)

General comments and recommendations:

SC DOT NEEDS TO FILL SEVERAL HOLES NEXT TO DOWNSTREAM BRIDGE

Preliminary Dam Inspection Disclaimer:

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**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 2412 & Hazard Class C2

B. Name of Dam: Clyburn Pond Dam

C. Inspection Date (09/30/2015) & Time: 11:00

D. Date of Last Inspection: (01/23/2012)

E. Location-County/City: Lee / Bethune

F. EQC Regional Office: Sumter EQC

G. Inspector's Name: Shawn S Frazer

H. Owner's Name: (William) Billy Clyburn

I. Contact Person (if different from above): _____

J. Dam Owner's or Contact Person's Phone Numbers: Home (____) _____ - _____
Office (803) 428 - 3221
Other (____) _____ - _____

K. Dam Owner's or Contact Person's mailing address:
Address 1 4375 Bethune Highway
Address 2 (optional) _____
City Bethune, State S.C. Zip Code 29009 - _____

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)? Asphalt; paved road
- ii. Animal activity observed? None observed
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? None observed
- v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? grass, weeds
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Some erosion near the pipe to the upstream-right of the spillway. Steep drop-off of the slope, apparently due to some wave erosion on the upstream-left side of the spillway.
- v. Settlement or cracks visible in slope? None observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, trees, brush
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? None observed
- v. Settlement or cracks visible in slope? None observed
- vi. Toe drains flowing? No toe drains observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Bottom of downstream slope is swampy, wet area, probably due to runoff. Monitor, but no active seepage observed.

D. Primary Spillway

- i. Any visible deterioration of structure? No, appears in good condition
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Pond pool level controlled with boards.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? None observed
- ii. Describe any deflection or damage observed to the pipe: None observed
- iii. Visible condition of outlet channel: Some weeds growing around pipe, but otherwise good. Pipe is partially submerged in outlet

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No emergency spillway.
- ii. Animal activity observed? N/A
- iii. Any noticeable deterioration in the approach or discharge channel? N/A
- iv. Any visible deterioration of structure's crest? N/A

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes, but nobody lives below dam, only hwy 341

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

Section IV (Conclusions)

General comments and recommendations:

Dam appears in good condition, appears to be proactive on maintenance.

One area of dumped wood chips on downstream side of steep dam slope, likely from slope clearing.

Preliminary Dam Inspection Disclaimer:

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

March 12, 2013

SCDNR
PO Box 167
Columbia, SC 29202

**RE: Lake Ashwood Dam
Dam No. D-2414
Lee County**

To Whom It May Concern:

On February 14, 2013 Harry Gaymon from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine re-inspection of Lake Ashwood Dam (D-2414). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

The following was noted during the inspection:

1. Trees located on the structure will need to be evaluated by a trained professional on an individual basis, since their roots can cause "piping" of impounded water, and a falling tree can remove substantial amounts of soil, weakening the dam and possibly causing failure. Simply cutting down the trees is unacceptable, as a rotting stump can leave voids, which create animal habitat and pathways for water. Some trees may require removal, and, depending on the location of the removed trees, may require a permit from the Bureau of Water.

We suggest that a routine maintenance program for the dam be established. This should include removing brush, repairing any areas of erosion (i.e. settling, cracks, slumps, cave-in, seepage, etc.), maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

Any alteration or major repairs of the dam require a permit from this agency and must be made under the direction of a qualified engineer.

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam (see attached DHEC Form 2605).

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. Please insure that the information on the Emergency Notification Plan is kept current. This should include updating the names and telephone numbers of the agencies listed on the Plan so that they can provide assistance if an emergency occurs. Please return an updated copy of the Emergency Notification Plan by April 12, 2013 (see attached DHEC Form 2606).

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Please call if you have any further questions.

Sincerely,

A handwritten signature in black ink that reads "Harry Gaymon". The signature is written in a cursive style with a large, stylized "H" and "G".

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program



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: D2414 & Hazard Class II B. Name of Dam: LAKE ASHWOOD DAM
C. Inspection Date (2/14/2013) & Time: 1400 D. Date of Last Inspection: (12/1/2010)
E. Location-County/City: LEE / ASHWOOD F. EQC Regional Office: REGION IV, SUMTER
G. Inspector's Name: HARRY GAYMON
H. Owner's Name: SCDNR
I. Contact Person (if different from above):
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 P.O. BOX 167
Address 2 (optional)
City COLUMBIA State SC Zip Code 29202

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? GRASS
ii. Animal activity observed? NO
iii. Any obvious alteration or repairs made? NO
iv. Erosion noticed on crest? NO
v. Any visible settlement, misalignment or cracks? NO

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? GRASS, A FEW PINE TREES ON NORTH END OF DAM
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on upstream slope? ONE EROSIONAL SPOT NEAR SOUTH END OF DAM THAT NEEDS TO BE MONITORED
- v. Settlement or cracks visible in slope? NO

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? GRASS, A FEW PINE TREES NEAR MIDDLE OF DAM
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? NO
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? NO
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: NO

D. Primary Spillway

- i. Any visible deterioration of structure? NO
- ii. Is there an obvious need to repair or replace trash rack? NO
- iii. Any noticeable problems with debris? NO
- iv. Is valve or gate present? NO

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NO
- ii. Describe any deflection or damage observed to the pipe: NONE
- iii. Visible condition of outlet channel: GOOD

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NO
- ii. Animal activity observed? NO
- iii. Any noticeable deterioration in the approach or discharge channel? NO
- iv. Any visible deterioration of structure's crest? NO

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NO

vi. If applicable, any visible leakage below concrete spillway? NO

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? NO EAP ON FILE IN REGIONAL OFFICE

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:

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.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

March 12, 2013

Bill Denton
Colonial Lake Corporation
61 Colonial Lake Drive
Camden, SC 29020

**RE: Colonial Lake Dam
Dam No. D-2502
Kershaw County**

Dear Mr. Denton:

On February 19, 2013 Harry Gaymon from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine re-inspection of Colonial Lake Dam (D-2502). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

There were no observable deficiencies noted during the inspection.

We suggest that a routine maintenance program for the dam be established. This should include removing brush, repairing any areas of erosion (i.e. settling, cracks, slumps, cave-in, seepage, etc.), maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

Any alteration or major repairs of the dam require a permit from this agency and must be made under the direction of a qualified engineer.

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam (see attached DHEC Form 2605).

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. Please insure that the information on the Emergency Notification Plan is kept current. This should include updating the names and telephone numbers of the agencies listed on the Plan so that they can provide assistance if an emergency occurs. Please return an updated copy of the Emergency Notification Plan by April 12, 2013 (see attached DHEC Form 2606).

Please call if you have any further questions.

Sincerely,

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

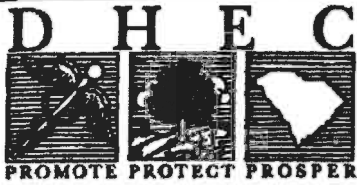
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Harry Gaymon

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program



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 2502 & Hazard Class II B. Name of Dam: COLONIAL LAKE DAM
C. Inspection Date (2/19/2013) & Time: 0930 D. Date of Last Inspection: (12/2/2010)
E. Location-County/City: Kershaw/Camden F. EQC Regional Office: REGION IV, SUMTER
G. Inspector's Name: HARRY GAYMON
H. Owner's Name: COLONIAL LAKE CORPORATION
I. Contact Person (if different from above): BILL DENTON
J. Dam Owner's or Contact Person's Phone Numbers: Home (803) 432-9850, Cell Office (803) 424-6080
K. Dam Owner's or Contact Person's mailing address: Address 1 61 COLONIAL LAKE DRIVE, City CAMDEN, State SC, Zip Code 29020

Section II (Dam Condition)

General Condition Assessment (Select one of the following): a) Satisfactory [X] b) Fair [] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest
i. Vegetation (grass, trees weeds)? grass
ii. Animal activity observed? NO
iii. Any obvious alteration or repairs made? NO
iv. Erosion noticed on crest? NO
v. Any visible settlement, misalignment or cracks? NO

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? GRASS
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on upstream slope? NO
- v. Settlement or cracks visible in slope? NO

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? GRASS
- ii. Animal activity observed? NO
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? NO
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? NO
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: NO

D. Primary Spillway

- i. Any visible deterioration of structure? NO
- ii. Is there an obvious need to repair or replace trash rack? NO
- iii. Any noticeable problems with debris? NO
- iv. Is valve or gate present? YES

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NO
- ii. Describe any deflection or damage observed to the pipe: NONE
- iii. Visible condition of outlet channel: GOOD

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NO
- ii. Animal activity observed? NO
- iii. Any noticeable deterioration in the approach or discharge channel? NO
- iv. Any visible deterioration of structure's crest? NO

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NO

vi. If applicable, any visible leakage below concrete spillway? NO

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? NEED UPDATED EAP

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? 6-12-07

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? NO

Section IV (Conclusions)

General comments and recommendations:

DAM IS WELL MAINTAINED

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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

August 28, 2015

Douglas Horton & Dustin Horton
4170 Timrod Road
Bethune SC, 29009

RE: Routine Inspection of Dam D-2513, Horton Pond Dam, Kershaw County

Dear Messrs. Douglas and Dustin Horton

This office performed a routine inspection of the Horton Pond Dam on August 18th, 2015. There was no owner representative present at the time of the inspection. The dam was partially mowed along the crest, but the slopes were thickly vegetated so a thorough inspection could not take place. The dam is thus 'Not Rated' for this inspection. A follow-up inspection will be scheduled within the next year. Enclosed you will find the inspection report, which lists any comments or concerns about the dam currently. Of note:

- Since the last inspection, the dam has been put back into use, the boards have been replaced and the reservoir is at full pond.
- The dam crest was partially cleared, on the south end of the dam, but the remainder of the dam was too thickly vegetated to be able to inspect the slopes and northern crest surfaces well. There are no apparent significant issues, but confirmation needs to be made when the slopes are clear.
- The boards and spillway channel should be cleared of trash, several logs are lodged and trash accumulation could be detrimental to the proper function of the dam.
- These parts of the spillway appear deteriorated, but based on previous inspection notes, I am unable to determine if the deficiencies are new developments or are old and stable and thus of less immediate concern:
 - Upstream-left side of the spillway, there is a hole/gap in the channel wall that water is flowing through in a steady stream.
 - Towards the rear of the channel, the walls on both sides are separating and leaning inwards towards the spillway from the primary channel walls.

I am enclosing another copy of the Surveillance, Emergency Notification, and Action Plan to complete and return, signed, to our Sumter office. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency.

Also enclosed is a copy of the Notification Form for Ownership Change. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

We would recommend that you establish a routine maintenance program of removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

This dam will be scheduled for a follow-up inspection in the next coming year. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



**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 2513 & Hazard Class C2 B. Name of Dam: Hortons Pond Dam
C. Inspection Date (08 / 18 / 20 15) & Time: 9:45 AM D. Date of Last Inspection: (03 / 21 / 2012)
E. Location-County/City: Kershaw / Bethune F. EQC Regional Office: Sumter EQC
G. Inspector's Name: Shawn S. Frazer
H. Owner's Name: Douglas P. & Dustin H. Horton (Via Tax Records)
I. Contact Person (if different from above): None Available
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 4170 Timrod Rd.
Address 2 (optional) _____
City Bethune State SC Zip Code 29009 - - - -

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)? Crest partially mowed, only left side of dam. (Looking upstream.)
ii. Animal activity observed? One small burrow-hole on crest
iii. Any obvious alteration or repairs made? None observed
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Weeds, too thick to allow inspection
- ii. Animal activity observed? _____
- iii. Any obvious alterations or repairs made? _____
- iv. Erosion observed on upstream slope? _____
- v. Settlement or cracks visible in slope? _____

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Weeds, too thick to allow inspection, handful of trees on either side of dam
- 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? One hole in channel wall by the boards where water is flowing. Bridge over dam deteriorated to the point where it is unsafe to use to assess the concrete spillway channel.
- ii. Is there an obvious need to repair or replace trash rack? No trash rack present
- iii. Any noticeable problems with debris? Log caught on boards over dam, another log in spillway channel.
- iv. Is valve or gate present? No valve/gate. Dam uses boards as a level-control mechanism.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No discharge pipe.
- ii. Describe any deflection or damage observed to the pipe: N/A
- iii. Visible condition of outlet channel: Lower channel walls deflecting inwards into channel of stilling basin, concrete joint separated.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No emergency spillway observed. Highest point of main spillway boundary wall is lowest point of dam.
- ii. Animal activity observed? N/A
- iii. Any noticeable deterioration in the approach or discharge channel? N/A
- iv. Any visible deterioration of structure's crest? N/A

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

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

No new hazards observed.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? No

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? N/A

Section IV (Conclusions)

General comments and recommendations:

Since the last inspection, this dam has been put back into use and the pond is completely filled.

The dam crest was partially mowed up to the spillway, but the remainder of the dam (both upstream and downstream slopes) were so thickly vegetated that inspection was not possible. Another attempt to schedule an inspection of this dam will be made within a year.

The boards that level the pond and the outlet channel/stilling basin should be cleared of trash. Several logs and large branches are on the boards and in the spillway, and should be removed to ensure proper function in an emergency.

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.

Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

August 28, 2015

Mr. Patrick Fleming
4990 Green Island Place
Vero Beach, FL 32967

RE: Routine Inspection of Dam D-2515, Hough Millpond Dam, Kershaw County

Dear Mr. Fleming,

As you are aware, this office performed a routine inspection of the Hough Millpond Dam on August 18th, 2015. Thank you for having Mr. William Studebaker join me for the inspection. Your dam appears to be functioning properly and received a 'Fair' rating. Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- The maintenance and cover of grass on the crest and most of the downstream slope of the dam is outstanding. However, the thick brush should be cleared completely from both slopes to encourage the same uniform coverage, especially across the emergency spillway.
- There are a significant number of trees on the downstream slope. While no trees were observed that pose an immediate risk, trees on dams can pose significant problems. Trees four inches (4") or less in diameter should be cut and the stumps treated with a waterproof wood preservative. I suggest that the larger trees be evaluated and considered for a tree-removal plan under the guidance of a professional engineer.
- The timber beam keeping the concrete spillway channel spillway walls is deteriorating. I would recommend reinforcing this strut or having it replaced before it fails. This type of work may require a permit from S.C. DHEC.

I have contacted Mr. Studebaker and I am sending out a copy of the Surveillance, Emergency Notification, and Action Plan to complete and return to our Sumter office. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency.

I am enclosing a copy of the Notification Form for Ownership Change. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.

Please continue your routine maintenance program of removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Your dam will be inspected again in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: William C. Studebaker
Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



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 2515 & Hazard Class C2
B. Name of Dam: Hough Millpond Dam
C. Inspection Date (08/18/2015) & Time: 10:45 AM
D. Date of Last Inspection: (03/21/2012)
E. Location-County/City: Kershaw / Bethune
F. EQC Regional Office: Sumter EQC
G. Inspector's Name: Shawn Frazer
H. Owner's Name: Patrick Fleming
I. Contact Person (if different from above): William C. Studebaker
J. Dam Owner's or Contact Person's Phone Numbers: Home (843) 334 - 8979, Patrick Cell (772) 263 - 2291, Bill Cell (843) 517 - 9007
K. Dam Owner's or Contact Person's mailing address: Address 1 4990 Green Island Place, Address 2 (optional), City Vero Beach, State FL, Zip Code 32967

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? Signs of beavers, Bill (William) indicated that he is actively trapping and exterminating.
iii. Any obvious alteration or repairs made? None observed
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, bush, small trees. Suggested that this vegetation be cut back along length of dam.
- ii. Animal activity observed? Beaver/otter slide wearing into slope just past spillway towards middle of dam
- iii. Any obvious alterations or repairs made? None observed
- iv. Erosion observed on upstream slope? Minor erosion due to animal activity just past spillway towards middle of dam.
- v. Settlement or cracks visible in slope? None observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Weeds, trees. Recommended cutting trees under 4" in diameter, would suggest clearing the downstream slope of the emergency spillway.
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? None observed
- iv. Erosion observed on down stream slope? None observed
- v. Settlement or cracks visible in slope? None observed
- vi. Toe drains flowing? No toe drains observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None observed

D. Primary Spillway

- i. Any visible deterioration of structure? Downstream channel walls still separated from previous repairs, but the timber brace is rotting/degrading.
- ii. Is there an obvious need to repair or replace trash rack? No trash rack
- iii. Any noticeable problems with debris? None
- iv. Is valve or gate present? No valve/gate

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No outlet pipe, dam flows over boards
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Channel walls leaning in as mentioned, otherwise good.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Vegetation on both slopes, would recommend clearing so flow is not impeded in the case of an emergency
- ii. Animal activity observed? None observed
- iii. Any noticeable deterioration in the approach or discharge channel? None
- iv. Any visible deterioration of structure's crest? None observed

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? None observed

vi. If applicable, any visible leakage below concrete spillway? None observed

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Mailed to Bill, waiting for copy to be returned. No EAP is on file with the Sumter EQC regional office for this dam.

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:

Overall, the dam is in good condition. The maintenance program is satisfactory and proactive, but the clearing of brush from the crest of the dam should be extended to both the upstream and downstream slopes, especially across the emergency spillway.

Due to the number of trees on the downstream slope, you may want to consider developing a tree-removal plan under the guidance of a professional engineer. However, during the inspection, no trees were observed that posed an immediate risk.

In the spillway, the piece of timber that prevents the two concrete channel walls from deflecting further is deteriorating. This beam should be reinforced or replaced before it decays to the point of failure.

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.

Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

March 12, 2013

Haile Watson
1612 Kellytown Road
Lugoff, SC 29078

**RE: Eloise Watson Dam
Dam No. D-2530
Kershaw County**

Dear Mr. Watson:

On February 22, 2013 Harry Gaymon, John Poole and Peter Milenkov from the South Carolina Department of Health and Environmental Control (DHEC) conducted a routine re-inspection of Eloise Watson Dam (D-2530). The inspection was conducted under the guidance of the South Carolina Dams and Reservoirs Safety Act, Section 49-11-170 (C) to determine the present condition of the dam and note any changes that may have occurred since the last inspection. A copy of the field inspection form is attached.

It was observed that the pond was drained. The inspectors discussed with the owners of the pond (John Hallman and Haile Watson) what future steps were needed regarding repairs to the dam before the Department could issue a permit to refill the pond.

Please call if you have any further questions.

Sincerely,

Harry Gaymon
Facility Evaluator

cc: Bureau of Water, Dams and Reservoir Safety Program

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Region 4

Serving Chesterfield, Clarendon, Darlington, Dillon, Florence, Kershaw, Lee, Marion, Marlboro and Sumter Counties
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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-2530 & Hazard Class II B. Name of Dam: FLOISE WATSON DAM
C. Inspection Date (2/22/2013) & Time: 1000 D. Date of Last Inspection: 10/27/2010
E. Location-County/City: MERSHAW LUGOFF F. EQC Regional Office: PEE DEE, SUMTER
G. Inspector's Name: HARRY GAYMON
H. Owner's Name: HAILE WATSON
I. Contact Person (if different from above):
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 1612 KELLYTOWN RD.
Address 2 (optional)
City LUGOFF State SC Zip Code 29078
POND IS DRAINED (see sec IV)

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

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

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? _____
- 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? _____

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. Auxilliary (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? _____

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:

HARRY GAYMON, JOHN POOLE AND PETER MILENKOV
MET WITH HAILE WATSON AND JOHN HALLMAN
(OWNERS OF WATSON DAM) ON FEB 22, 2013
TO DISCUSS WHAT NEEDED TO BE DONE BY
OWNERS OF DAM TO GET PERMIT TO
RE-FILL POND.

Preliminary Dam Inspection Disclaimer:

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Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

September 29, 2015

William G. & Brenda Barfield
1422 Horsehead Road
Lugoff, S.C. 29078

Christy Allen
1059 Pine Grove Road
Lugoff, S.C. 29078

RE: Routine Inspection of Dam D-2531, "Barfield Pond" Dam

Dear Ms. Allen and Mr. & Mrs. Barfield:

As you may already be aware, the South Carolina Department of Health and Environmental Control (DHEC) is responsible for assuring all hazardous dams are properly maintained in order to prevent failure. This office performed a routine inspection of the listed dam on Wednesday, August 26th, 2015. Thank you to Mr. Barfield for being available for this inspection.

Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- The follow-up inspection found water springing from the ground near the middle of the toe of the dam and flowing downstream. The pools of water to either side of this active flow are also of potential concern if they are being fed by similar means of water boiling up under the pools.
- There are a significant number of trees and large amounts of thick vegetation on the dam slopes. Trees and other deep-rooted growth on any part of a dam can create a situation that is hazardous to the integrity of the dam.
 - Trees or other woody vegetation four inches (4") or less in diameter should be cut as part of your routine maintenance program.
 - This office strongly recommends dam owners with trees establish a tree-removal plan under the guidance of a professional engineer, to safely remove trees larger than 4" and their root systems gradually over the course of several years.

Because this inspection revealed an active, undocumented seep and other areas of potential seepage on a Class 2 Significant Hazard dam, I discussed this case with other DHEC engineers and personnel from the dams program in the central office. We are requiring you to hire a Professional Engineer (registered in the state of South Carolina) to perform a detailed inspection of the dam. A report from the engineer must be submitted to me within **one hundred and twenty (120) days** of the receipt of this letter. The report should include the results of the detailed inspection and a repair plan (if warranted). If repairs are warranted, a permit may be required in order to perform the repairs. I will review the report and then forward it to central office personnel for approval. I am including a list of professional engineers with this report. This list is not all-inclusive and you are not required to use someone from this list.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

When completed, please mail a copy of the Surveillance, Emergency Notification, and Action Plan with original signatures to our Sumter office. We only need one copy of the plan for the structure across all owners. You should also keep copies of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency.

During the inspection, I gave Mr. Barfield a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.

Any alteration or major repair of the dam requires a permit from this agency and must be made under the direction of a qualified engineer.

This dam is scheduled for another inspection in three (3) years. If you have any questions, or any concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



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 2531 & Hazard Class C2
B. Name of Dam: Barfield Pond Dam
C. Inspection Date (08/26/2015) & Time: 11:30
D. Date of Last Inspection: (03/22/2012)
E. Location-County/City: Kershaw / Lugoff
F. EQC Regional Office: Sumter EQC
G. Inspector's Name: Shawn S. Frazer
H. Owner's Name: William G. & Brenda Barfield, Christy Allen
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: W. & B. Barfield (803) 438-3631, Christy Allen (803) 438-7306
K. Dam Owner's or Contact Person's mailing address:
Address 1 (William & Brenda Barfield) 1422 Horsehead Rd. Lugoff SC, 29078
Address 2 (optional) (Christy Allen) 1059 Pine Grove Rd. Lugoff SC, 29078
City State Zip Code

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Bare dirt, patches of grass
ii. Animal activity observed? Snapping turtles
iii. Any obvious alteration or repairs made? None observed
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Small and large trees, weeds
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? None observed
- iv. Erosion observed on upstream slope? Small slides have occurred previously, monitor and fill if new slides occur
- v. Settlement or cracks visible in slope? None observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Small and large trees, weeds. Some trees falling and pulling up rootballs, suggested monitoring and filling/compacting rootball cavity with an acceptable fill when observed.
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? None observed
- iv. Erosion observed on down stream slope? None observed
- v. Settlement or cracks visible in slope? Some slides are apparent on downstream edge near the middle of the dam, but it looks old.
- vi. Toe drains flowing? None observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Three small pools off of the toe near the middle of dam. Muddy colored water, could be runoff. The pools appear to be old, but there is no mention of these pools in the dam's local file. [9/18/15: Follow-up inspection, the middle 'pool' is flowing, fed by an apparent seep springing from the dam toe.]

D. Primary Spillway

- i. Any visible deterioration of structure? N/A: Only emergency spillway
- ii. Is there an obvious need to repair or replace trash rack? N/A
- iii. Any noticeable problems with debris? N/A
- iv. Is valve or gate present? N/A

E. Outlet Pipe

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

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Recently fallen tree to left of upstream side of emergency spillway should be removed and rootball void filled.
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? Upstream slope on channel is saturated up to the crest, should be monitored for saturated areas or seepage on the downstream slope of the spillway. [9/18/15: Saturation caused by rains, now dry.]
- iv. Any visible deterioration of structure's crest? Side of crest towards upstream slope is saturated. [9/18/15: Now dry.]

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____
No hazards observed downstream, immediate drainage into woodlands, Greg says parcels below dam have a marked 100ft no-build zone on either side of spillway channel, all observed downstream roads have bridges. Consider downgrading to a C3?

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Will be faxed in, owner will contact region to update contact information for owners of downstream properties as they sell.

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

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

Section IV (Conclusions)

General comments and recommendations:

[9-18-15] The follow-up inspection found water springing from the ground near the middle of the toe of the dam and flowing downstream. The pools of water to either side of this active flow are also of potential concern if they are being fed by similar means of water boiling up under the pools.

Where trees fall and pull up embankment material to create voids, or stumps decay into cavities, these areas should be evaluated for repair and backfilled with an appropriate fill material.

The amount of trees and woody vegetation on both slopes of the dam is of concern. Creating a tree-removal plan developed under the guidance of a professional engineer is highly recommended by this office.

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name: Enter the name of the person performing the inspection.
- H) Owner's Name: Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

July 2nd, 2015

Mr. Billy Ward & Mr. Ray Ward
4582 Paxville Highway
Manning, SC 29102

RE: Routine Inspection of Dam D-3492, Edna Ward Pond Dam, Clarendon County

Dear Mr. Ward,

As you are aware, our office performed a routine inspection of the Edna Ward Pond Dam on July 1st, 2015. Thank you for joining Dani Hallman and me for the inspection. Your dam appears to be functioning properly and received a "Satisfactory" rating. Enclosed you will find the inspection report, which summarizes any comments or concerns that we have about the dam.

You are commended for being pro-active in keeping the dam slopes, crest, and spillway largely clear of trees and brush. However, for the patch of trees mentioned in the report that we discussed, again, only trees of four inches (4") in diameter should be cut without evaluation. Any larger trees should be evaluated by a professional engineer, as their removal could constitute a repair of the dam that would require a permit, as the decay of larger root systems could lead to piping and ultimately failure of the dam.

Please remember to complete and return a copy of the Surveillance, Emergency Notification, and Action Plan to our Sumter office. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency.

During the inspection, you were provided with a copy of the Notification Form for Ownership Change. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within 30 days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.

Please continue your routine maintenance program of removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

Your dam will be inspected again in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-778-6548.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: John Poole, P.E., SC DHEC - Bureau of Water



**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 3492 & Hazard Class C2

B. Name of Dam: Edna Ward Pond Dam

C. Inspection Date (07 / 01 / 20 15) & Time: 10:30

D. Date of Last Inspection: (03 / 21 / 2012)

E. Location-County/City: Clarendon / Manning

F. EQC Regional Office: Sumter

G. Inspector's Name: Shawn S. Frazer

H. Owner's Name: Billy Ward & Ray Ward (Joint Ownership)

I. Contact Person (if different from above): Billy Ward

J. Dam Owner's or Contact Person's Phone Numbers:

Home (____) _____ - _____

Office (803) 460 - 7398

Other (____) _____ - _____

K. Dam Owner's or Contact Person's mailing address:

Address 1 4582 Paxville Highway

Address 2 (optional) _____

City Manning, State SC Zip Code 29102 - 5294

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)? Minor weeds & grass
- ii. Animal activity observed? None
- iii. Any obvious alteration or repairs made? None
- iv. Erosion noticed on crest? None
- v. Any visible settlement, misalignment or cracks? None

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Well-maintained grass
- ii. Animal activity observed? Signs of digging/burrowing. Billy said he will fill the holes and continue to monitor.
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? Some difference/variance in the angle of the slope. Looks old, might be from building up the dam when the last major repairs occurred.

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Mild vegetation of weeds & grass. Small patch of mostly older trees on the slope to the right when facing downstream.
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? None
- v. Settlement or cracks visible in slope? None
- vi. Toe drains flowing? No toe drains observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None observed

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes, valve is present. Billy said he will test/work the gate at the next available opportunity.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Fine

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No significant obstructions, vegetation and weeds.
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Gave Billy a copy of the updated form to complete and mail back.

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

Last updated on: 3-21-2012

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

Section IV (Conclusions)

General comments and recommendations:

Dam appears to be in very good condition. There are a few signs of animal digging/burrowing that need to be monitored and filled if necessary. There is a small patch of trees growing on the end of the dam's downstream slop that should be monitored. Briefed Billy on cutting down trees less than 4 inches in diameter, he said they would look into cutting those this winter. If there is no risk to gate, the valve stem should be worked occasionally to ensure full functionality in the case that the gate needs to be opened in an emergency.

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

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Section I (Owner's Information):

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- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

August 31, 2015

Chris Cogdill
Panola Enterprises L.P.
PO Box 1199
Summerton SC, 29148

RE: Follow-up Inspection of Dam D-3498, Cola Plantation Dam, Clarendon County

Dear Mr. Cogdill:

This office performed a follow-up inspection of the Cola Plantation Dam on August 31st, 2015 after a preliminary inspection on July 1st. The quick action taken to repair the erosion noted in the previous inspection is commendable, and the dam was cleared of vegetation as requested. Overall, the dam appears in good condition, and based on this inspection, it was rated as 'Fair.' Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- The sandy fill-material used to repair the slumping areas is beginning to erode on the slopes in the recent rains. This area should be monitored and grass or another uniform ground-cover should be established as soon as possible to prevent further erosion.
- With the brush cut back, two erosion gullies on the western downstream slope were observed that should be repaired.
- There are number of trees on the downstream slope of the dam. Trees four inches (4") or less in diameter should be cut as part of routine maintenance, but we recommend evaluating the larger trees for a tree-removal plan under the guidance of a professional engineer.
- The routine maintenance performed on the dam to remove thick brush and vegetation should be extended to also clear brush from the slope of the emergency spillway.

I am enclosing a copy of the Surveillance, Emergency Notification, and Action Plan to complete and return, signed, to our Sumter office. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency.

Also enclosed is a copy of the Notification Form for Ownership Change. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Please continue your routine maintenance program of removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

This dam is scheduled for another inspection in three (3) years.. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



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 3498 & Hazard Class C2
B. Name of Dam: Cola Plantation Dam
C. Inspection Date (08/31/2015) & Time: 9:30
D. Date of Last Inspection: (07/01/2015)
E. Location-County/City: Clarendon / Summerton
F. EQC Regional Office: Sumter EQC
G. Inspector's Name: Shawn S. Frazer
H. Owner's Name: Chris Codgill
I. Contact Person (if different from above): Tim Baxley
J. Dam Owner's or Contact Person's Phone Numbers: Chris Cell (803) 696-6007, Tim Office (803) 609-6825, Tim Cell (803) 460-7323
K. Dam Owner's or Contact Person's mailing address: Address 1 Chris Codgill, Panola Enterprises LP, Address 2 (optional) PO Box 1199, City Summerton, State SC, Zip Code 29148

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass, weeds
ii. Animal activity observed? Dog digging in the new fill material
iii. Any obvious alteration or repairs made? Fill dirt on crest, upstream and downstream slopes
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? grass, weeds
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? Previously observed slumping near middle of the dam has been covered with a sandy fill material.
- iv. Erosion observed on upstream slope? Sandy fill material is filtering down into the water, grass should be seeded/encouraged as soon as possible.
- v. Settlement or cracks visible in slope? None observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? grass, weeds, trees approx 10-15 ft down the slope
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? Fill material in previously observed slumping/slide on downstream slope near middle of dam
- iv. Erosion observed on down stream slope? Two gullies on western edge of dam should be monitored, possibly filled and grassed.
- v. Settlement or cracks visible in slope? None observed
- vi. Toe drains flowing? No toe drains observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None observed

D. Primary Spillway

- i. Any visible deterioration of structure? No. Structure looks to be in good condition
- ii. Is there an obvious need to repair or replace trash rack? No.
- iii. Any noticeable problems with debris? Weeds growing in the riser, should occasionally be removed.
- iv. Is valve or gate present? Valve present at riser appears in good condition. If it does not pose a risk, the gate should be worked occasionally to ensure that it stays in good working condition.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Could not inspect, slope too wet/steep to traverse. None observed.
- ii. Describe any deflection or damage observed to the pipe: No deflection observed to visible portions of pipe.
- iii. Visible condition of outlet channel: Outlet pipe drains water into center of pool, looks fine.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Brush, weeds, should be cleared
- ii. Animal activity observed? None observed
- iii. Any noticeable deterioration in the approach or discharge channel? None observed
- iv. Any visible deterioration of structure's crest? None observed

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Mailing another copy of form for owner/contact to complete.

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:

Weeds/brush were cut back significantly, follow-up observations found a few additional areas that should be monitored or corrected, but the dam is otherwise in good condition. Commendably fast action on the erosion seen previously.

The slumping/slides noticed in the July 1st inspection have been filled in with a sandy filler material, which was eroding some in recent rains. Grass should be encouraged in this area, and until it is well-established, erosion should be monitored and controlled.

There were two apparent gullies observed on the downstream slope on the west side of the dam that should be monitored. Consider filling and grassing over these areas if they appear to be worsening.

There are a number of large trees on the downstream slope of the dam, some have fallen previously and pulled up rootballs. Trees four inches in diameter or less may be cut down and stumps covered with a waterproof wood preservative, but larger trees should be considered for evaluation for a tree-removal plan under the guidance of a professional engineer.

Recommend that the maintenance plan for cutting brush back include cutting the brush down from the emergency spillway on the eastern end so that it can function properly in case of an emergency 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.

**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Helgel, Director

Promoting and protecting the health of the public and the environment

September 11, 2015

Clarence Hilton
1068 Schooner Trail
Summerton, S.C. 29148

RE: Routine Inspection of Dam D-3500, "Stukes/Briggs" Dam, Kershaw County

Dear Mr. Hilton:

This office performed a routine inspection of the listed dam on September 2nd, 2015. Thank you for meeting me for this inspection. Generally, the dam appears in good condition, and based on this inspection, it was rated as 'Fair.' You are commended for being proactive in your general maintenance of the dam and controlling the beaver population. Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- The issues with the dam itself noted from the previous inspection appeared to be resolved.
- There are number of trees on both slopes of the dam. Trees and other deep-rooted growth on any part of a dam can create a situation that is hazardous to the integrity of the dam.
 - Trees or other woody vegetation four inches (4") or less in diameter should be cut as part of your routine maintenance program.
 - A uniform growth of grassy vegetation on both slopes, the crest, and spillway is considered an ideal cover, and should be encouraged during routine maintenance.
 - This department strongly recommends dam owners with trees establish a tree-removal plan under the guidance of a professional engineer, to safely remove trees larger than 4" (and their root systems) gradually over the course of several years.

When completed, please mail a copy of the Surveillance, Emergency Notification, and Action Plan with **original signatures** to our Sumter office. You should also keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency. If you need an additional copy of the plan, please contact me at this office.

During the inspection, I gave you a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Please continue your routine maintenance program, including: removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

This dam is scheduled for another inspection in three (3) years.. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Mr. Lionel Stukes
Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting



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 3500 & Hazard Class C2
B. Name of Dam: Stukes/Briggs Pond Dam
C. Inspection Date (09/02/2015) & Time: 9:30
D. Date of Last Inspection: (01/25/2012)
E. Location-County/City: Clarendon / Summerton
F. EQC Regional Office: Sumter EQC
G. Inspector's Name: Shawn S. Frazer
H. Owner's Name: Clarence Hilton & Lionel Stukes
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Mr. Stukes (803) 485-8562, Mr. Hilton (cell) (703) 470-1534, Mr. Hilton (office) (803) 885-8539
K. Dam Owner's or Contact Person's mailing address: Address 1 1068 Schooner Trail, Address 2 (optional), City Summerton, State SC, Zip Code 29148

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass, dirt
ii. Animal activity observed? None observed.
iii. Any obvious alteration or repairs made? None observed.
iv. Erosion noticed on crest? None observed.
v. Any visible settlement, misalignment or cracks? None observed.

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, dirt. Several large trees that might be evaluated as part of tree-removal plan.
- ii. Animal activity observed? Small area near eastern end of dam looked to be recently dug in, but no burrow. Suggest monitoring.
- iii. Any obvious alterations or repairs made? None observed.
- iv. Erosion observed on upstream slope? Steep slope on dam face, but no observed erosion that looked recent.
- v. Settlement or cracks visible in slope? None observed.

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Weeds, small and large trees.
- ii. Animal activity observed? None observed.
- iii. Any obvious alterations or repairs made? None observed.
- iv. Erosion observed on down stream slope? None observed.
- v. Settlement or cracks visible in slope? None observed.
- vi. Toe drains flowing? No toe drains observed.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None observed.

D. Primary Spillway

- i. Any visible deterioration of structure? No primary spillway, structure filled years ago, only emergency/runaround spillway remains.
- ii. Is there an obvious need to repair or replace trash rack? N/A
- iii. Any noticeable problems with debris? N/A
- iv. Is valve or gate present? N/A

E. Outlet Pipe

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

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None observed. Mr. Hilton said that the spillway was periodically cleared for debris/obstructions.
- ii. Animal activity observed? None observed.
- iii. Any noticeable deterioration in the approach or discharge channel? None observed.
- iv. Any visible deterioration of structure's crest? None observed.

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

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

None observed

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Mr. Hilton given a copy during inspection to complete and return.

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:

Mr. Hilton told me that there is a contractor that regularly comes and monitors for and controls beaver activity on the pond.

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.

**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

September 18, 2015

The Graves Company Inc.
Attn: David Graves
P.O. Box 8656
Columbia, S.C. 29202

RE: Routine Inspection of Dam D-4210, "Graves Ski Pond / Longbranch Lake" Dam

Dear Mr. Graves:

This office performed a routine inspection of the listed dam on August 24th, 2015. Generally, the dam appears in good condition, and based on this inspection, it was rated as 'Fair.' You are commended for being proactive in your general maintenance of the dam. Enclosed you will find the inspection report, which lists any comments or concerns about the dam. Of note:

- The geotextile fabric and riprap underneath and around the outlet pipe need to be replaced. There is no riprap remaining and the fabric is torn, exposing the soil underneath, which appears to be eroding and undercutting the pipe.
- The area on the downstream slope above the outlet pipe is covered in overgrown vegetation, which should be mowed or cut down as part of your general maintenance.
- There are some weeds and vegetation growing in the riser's trash rack. These should be removed at the next convenient opportunity.

Thank you for sending in an updated copy of the Surveillance, Emergency Notification, and Action Plan. You should keep a copy of this plan in an easily accessible location so that all agencies and individuals that may be affected can be notified as quickly as possible in the event of an emergency. If you need an additional copy of the plan, please contact me at this office.

Enclosed is a copy of the Notification Form for Ownership Change for your records. According to the S.C. Dams and Reservoirs Safety Act, you must notify us within thirty (30) days following the transfer of the dam to someone else. The form should include the new owners contact information as well as your own and be mailed to our central office in Columbia.

Please continue your routine maintenance program, including: removing brush and small trees, repairing areas of erosion (slumping, settling, cave-ins, cracks, etc.), maintaining a good cover of grass, and keeping the dam and spillways in good operating condition. Please conduct periodic visual inspections of the dam when convenient, and report any significant changes or problems that may affect the safety of the dam.

This dam is scheduled for another inspection in three (3) years. If you have any questions or concerns before the next inspection, please feel free to contact me at 803-934-2937.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Sincerely,

Shawn S. Frazer
Regional Engineer
SC Department of Health & Environmental Control
Pee Dee EQC Region – Sumter
105 N. Magnolia St, Rm. 204
Sumter, SC 29150

E-mail: frazerss@dhec.sc.gov
Office Phone: (803) 778-6548
Fax: (803) 934-2938

Cc: Jamie Ford, S.C. DHEC Bureau of Water - Dams and Reservoirs Permitting

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? None Observed
- iii. Any obvious alterations or repairs made? None Observed
- iv. Erosion observed on upstream slope? None Observed
- v. Settlement or cracks visible in slope? None Observed

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass/weeds, thick growth above outlet pipe
- ii. Animal activity observed? None Observed
- iii. Any obvious alterations or repairs made? None Observed
- iv. Erosion observed on down stream slope? None Observed
- v. Settlement or cracks visible in slope? None Observed
- vi. Toe drains flowing? No toe drains Observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Monitor two areas of abnormally thick vegetation on the downstream slope on either side northmost power pole on dam.

D. Primary Spillway

- i. Any visible deterioration of structure? None Observed
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? Weeds/vegetation are growing on the trash rack and spillway. These should be removed at the next available opportunity.
- iv. Is valve or gate present? None observed

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? None observed
- ii. Describe any deflection or damage observed to the pipe: A small section of corrugated metal pipe was seen down the spillway channel, couldn't closely inspect the outlet pipe for damage due to thick vegetation and steep channel walls.
- iii. Visible condition of outlet channel: The riprap and geotextile fabric around the outlet pipe have deteriorated to the point of bare earth under the pipe.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Trees, brush.
- ii. Animal activity observed? None observed
- iii. Any noticeable deterioration in the approach or discharge channel? None observed
- iv. Any visible deterioration of structure's crest? None observed

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes, mailed in.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Updated in 2015

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

Section IV (Conclusions)

General comments and recommendations:

With the exception of the outlet pipe erosion and washed out riprap below the pipe, the dam is in excellent condition.

The riprap and geotextile under the outlet pipe need to be replaced, but the erosion that has occurred appeared minimal.

The piece of corrugated pipe found downstream of the outlet channel might not be from the dam spillway itself, but the heavy growth of vegetation around and above the outlet should be cut back before the next inspection so a thorough examination can be made.

The vegetation growth in the trash rack should be removed at the next available opportunity.

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.