



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 1267 & Hazard Class Significant B. Name of Dam: J R DARRAGH DAM 1
C. Inspection Date (05/14/2015) & Time: 09:07 A.M. D. Date of Last Inspection: (11/13/2014)
E. Location-County/City: GREENWOOD / GREENWOOD F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, MICHAEL HAYES
H. Owner's Name: ROBERT JOHNSON, JAMES DARRAGH
I. Contact Person (if different from above): JAMES DARRAGH
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other (864) 993 - 1124
K. Dam Owner's or Contact Person's mailing address: Address 1 122 SALAK ROAD Address 2 (optional) City GREENWOOD, State SC Zip Code 29646 -

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)? Grass, sand, clay
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)? Small trees/brush at water line, exposed clay on the right end, pine straw
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? Brush and small tress have been removed since previous inspection
- iv. Erosion observed on upstream slope? Yes, along water line
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, brush, poison oak, poison ivy, limb and stump debris, briars
- ii. Animal activity observed? Downstream slope of the dam was not inspectable due to site conditions
- iii. Any obvious alterations or repairs made? Downstream slope of the dam was not inspectable due to site conditions
- iv. Erosion observed on down stream slope? Downstream slope of the dam was not inspectable due to site conditions
- v. Settlement or cracks visible in slope? Downstream slope of the dam was not inspectable due to site conditions
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Downstream slope of the dam was not inspectable due to site conditions
From the crest, there appears to be seepage on the right side of the
backslope near the bottom of the slope and also along the left groin. It appears that both of these areas have flowing seepage

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? Outlet pipe was not accessible due to the
condition of the down stream slope
- ii. Describe any deflection or damage observed to the pipe: Outlet pipe was not accessible due to the
condition of the down stream slope
- iii. Visible condition of outlet channel: Outlet pipe was not accessible due to the condition of the down stream slope

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Inspector is currently unsure of whether or not there is an emergency spillway
- 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? No

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? _____

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. Robert Johnson attended the majority of the inspection. Mr. Johnson stated that the down stream slope was covered in poison ivy and poison oak. After discussion with Central Office personnel, it was decided that the down stream slope was not in a condition that was inspectable.

Although the owners have cleared off the majority of the excess vegetation along the front slope of the dam, additional efforts must be spent removing all excess vegetation from the upstream and downstream slopes of the dam (everything less than 4 inches in diameter). This includes poison ivy, poison oak, brush, briars, small trees, etc. Your goal is to maintain a grass cover across all aspects of the structure. Also, all tree debris (limbs, stumps) should be removed from the down stream slope. The seepage noted must be monitored closely. If you notice a change in the seepage (color, velocity, etc) you need to call the Department immediately. Please monitor the erosion along the front slope of the structure.

*** All directions are given looking downstream.

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 1270 & Hazard Class Significant B. Name of Dam: Stephen L Davis Dam
C. Inspection Date (01/07/2015) & Time: 09:30 D. Date of Last Inspection: (01/19/2012)
E. Location-County/City: Greenwood / Hodges F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Stephen and Lori Davis
I. Contact Person (if different from above): Stephen Davis
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 229-5211 Other () -
K. Dam Owner's or Contact Person's mailing address: Address 1 PO Box 428 Address 2 (optional) City Greenwood, State SC Zip Code 29648 -

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? Numerous ant hills
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, thick areas of weeds - difficult to see ground
- ii. Animal activity observed? Multiple animal paths
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Inspector could not see the ground well enough to comment on this.
- v. Settlement or cracks visible in slope? Inspector could not see the ground well enough to comment on this.

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, weeds over five feet tall, bare areas forming, treeline is beginning to creep onto the down stream slope
- ii. Animal activity observed? Animal paths were evident
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Inspector could not see the ground well enough to comment on this.
- v. Settlement or cracks visible in slope? Surface appears to be uneven. This was also difficult to inspect due to the excess vegetation.
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Soft, wet area that water exited the ground when walked on was found to the right of the primary spillway outlet on the bottom half of the down stream slope. Water was not seen flowing.

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? Yes - debris needs to be removed from the pipes and the trash rack
- iv. Is valve or gate present? N/A

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: Water appears to be moving slowly once it is beyond the toe of the dam. Ensure there is not a blockage of the channel downstream of Gary Road.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? There is a tree growing along the waters edge on the left emergency spillway. There is also a large mound of pine straw in the waters path near where it enters the channel east of the dam.
- 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? No.

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:

Excess vegetation needs to be removed from the structure on a regular basis. In the past, the dam had a grass cover.

This was not true on the day of the current inspection. Your goal is to maintain a grass cover across the structure.

Closely monitor the seepage that has been found on the backslope of the dam and call the Department if you notice any changes in the amount of seepage or the color of the seepage.

Ensure the water has a clear path away from the toe of the dam.

Continue monitoring the path of the water leaving the primary outlet pipes for signs of erosion.

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Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

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- 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.
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- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

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Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

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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 1271 & Hazard Class Significant B. Name of Dam: TOWN AND COUNTRY DAM 1
C. Inspection Date (01/15/2015) & Time: 09:47 AM D. Date of Last Inspection: (01/23/2012)
E. Location-County/City: GREENWOOD / GREENWOOD F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT
H. Owner's Name: TOWN AND COUNTRY DAM 1
I. Contact Person (if different from above): WILSON BRUCE
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 388 - 4001 Other (864) 377 - 1016
K. Dam Owner's or Contact Person's mailing address: Address 1 114 CLUB DRIVE Address 2 (optional) City GREENWOOD, State SC Zip Code 29646 -

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)? Asphalt Road with grass shoulders
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? Cracks in asphalt

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? Possible animal burrow into dam on front slope just right of the dock, ground is soft in this vicinity
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? along the waters edge, on the upstream slope under the dock (please monitor and repair repair as needed)
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, fence near crest
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? A fence was erected near the border between the downstream slope and the crest
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? A depression was identified on the right side of the back slope near an electrical junction box
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: It was soggy along the toe of the dam - there have also been recent rain events. Please monitor this area closely and call the Department if you notice any changes to the flow or amount of water in this area

D. Primary Spillway

- i. Any visible deterioration of structure? Could not inspect because it is situated underneath the dock
- ii. Is there an obvious need to repair or replace trash rack? Could not inspect because it is situated underneath the dock
- iii. Any noticeable problems with debris? Could not inspect because it is situated underneath the dock
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Not that I could tell (difficult to get close to due to the erosion in the area as well as the excess vegetation)
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Channel appeared mostly clear - water was moving away from the discharge point

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Fence
- 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? _____

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? No

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

Owners appear to continue to perform normal dam maintenance activities. Please remember your goal is to maintain a grass cover across all aspects of the structure.w

Animal burrow was discovered to the right of the dock.

Please monitor the wet areas along the toe of the dam.

The front slope had eroded under the dock. This area should be repaired before further degradation of the structure occurs.

*** All directions are given looking downstream

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- 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.
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- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

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Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

January 23, 2015

Gatewood POA
Attn: Wilson Bruce
114 Club Drive
Greenwood, SC 29646

RE: Routine inspection of Dam D-1272
Town & Country Dam 2
Greenwood County

Dear Mr. Bruce:

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. On January 15, 2015, the Department conducted its routine inspection of the "Class 2 Significant Hazard" dam listed above.

I would like to thank you for the continued upkeep of the structure. Also, thank you for fixing deficiencies noted in the previous inspection. Please refer to the attached inspection report for details related to the inspection.

I left you a blank copy of an Emergency Action Plan (EAP). Please fill out one form for the structure. Please make a copy of the Plan and mail/fax/email it to my attention. Please keep a copy for your records. The plan lists a set of contacts to make in the event of a problem with the structure. It should be reviewed before significant rains and storms (e.g. hurricanes) as well as on a regular basis to ensure the information in it is correct.

I also left you a blank copy of the "Notification of Ownership Change" form. This form must be filed with the Department in the event of transfer of ownership of the dam.

Also, as a reminder, if you experience an overtopping event or other problems with the structure, please contact the Department and update/make personnel aware of the situation.

If you have any questions or if I can be of any assistance prior to the re-inspection, please give me a call at 864-223-0333 or email me at hacketsa@dhec.sc.gov.

Thank you,



Stephanie Hackett, P.E.

Regional Engineer

South Carolina Department of Health and Environmental Control

Upstate EQC Greenwood

1736 S Main Street, Greenwood, SC 29646

(864) 227-5915 Office

(864) 223-6935 Fax

Enclosures

CC: John Poole, P.E., SCDHEC Bureau of Water (without enclosures)



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 1272 & Hazard Class Significant B. Name of Dam: Town & Country Dam 2
C. Inspection Date (01/15/2015) & Time: 09:30 AM D. Date of Last Inspection: (01/23/2015)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Gatewood POA
I. Contact Person (if different from above): Wilson Bruce
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 388-4001 Other (864) 377-1016
K. Dam Owner's or Contact Person's mailing address: Address 1 114 Club Drive Address 2 (optional) City Greenwood, State SC Zip Code 29646 -

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)? Asphalt road with grass shoulders
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? road has transverse and parallel cracks

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? Yes - adjacent to the water on the right side of the dam
- v. Settlement or cracks visible in slope? There is a depression that has formed on the right side of the dam (near the dock) near the middle of the structure

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, couple trees on left side of the dam
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? Bushes that lined the road have been removed, the bank of the lower pond (where the discharge pipe enters the downstream pond) has been armored with rip-rap, trees and debris in the vicinity of primary outlet have been removed
- iv. Erosion observed on down stream slope? There was erosion in the vicinity of the discharge pipe - this is most likely due to the removal of the vegetation in this area (you may want to consider filling this area in with compacted soil)
- v. Settlement or cracks visible in slope? Settlement has occurred near crest on left side of the dam
- vi. Toe drains flowing? N/A
- 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? Could not see the structure due to the dock that is situated immediately above the primary spillway
- ii. Is there an obvious need to repair or replace trash rack? Could not see the structure due to the dock that is situated immediately above the primary spillway
- iii. Any noticeable problems with debris? Could not see the structure due to the dock that is situated immediately above the primary spillway
- iv. Is valve or gate present? Could not see the structure due to the dock that is situated immediately above the primary spillway

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: Clear (discharge enters a downstream pond)

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? Narrow path on the downstream slope in the left emergency spillway - possibly from where the left emergency spillway has been in use in the past - monitor this area and fix any additional erosion that may occur
- iv. Any visible deterioration of structure's crest? No

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? No

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

Inspector spoke with Mr. Wilson Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problems arose during the rain events that had to be fixed.

Thank you for the attention to the structure. The dam appeared in good overall shape on the day of the inspection.

Please continue to monitor any erosion that is occurring and fix as needed to prevent further damage to the structure.

*** All directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 1272 & Hazard Class Significant B. Name of Dam: Town & Country Dam 2
C. Inspection Date (01/15/2015) & Time: 09:30 AM D. Date of Last Inspection: (01/23/2015)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Gatewood POA
I. Contact Person (if different from above): Wilson Bruce
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 388 - 4001 Other (864) 377 - 1016
K. Dam Owner's or Contact Person's mailing address: Address 1 114 Club Drive Address 2 (optional) City Greenwood, State SC Zip Code 29646 -

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)? Asphalt road with grass shoulders
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? road has transverse and parallel cracks

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? Yes - adjacent to the water on the right side of the dam
- v. Settlement or cracks visible in slope? There is a depression that has formed on the right side of the dam (near the dock) near the middle of the structure

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, couple trees on left side of the dam
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? Bushes that lined the road have been removed, the bank of the lower pond (where the discharge pipe enters the downstream pond) has been armored with rip-rap, trees and debris in the vicinity of primary outlet have been removed
- iv. Erosion observed on down stream slope? There was erosion in the vicinity of the discharge pipe - this is most likely due to the removal of the vegetation in this area (you may want to consider filling this area in with compacted soil)
- v. Settlement or cracks visible in slope? Settlement has occurred near crest on left side of the dam
- vi. Toe drains flowing? N/A
- 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? Could not see the structure due to the dock that is situated immediately above the primary spillway
- ii. Is there an obvious need to repair or replace trash rack? Could not see the structure due to the dock that is situated immediately above the primary spillway
- iii. Any noticeable problems with debris? Could not see the structure due to the dock that is situated immediately above the primary spillway
- iv. Is valve or gate present? Could not see the structure due to the dock that is situated immediately above the primary spillway

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: Clear (discharge enters a downstream pond)

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? Narrow path on the downstream slope in the left emergency spillway - possibly from where the left emergency spillway has been in use in the past - monitor this area and fix any additional erosion that may occur
- iv. Any visible deterioration of structure's crest? No

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? No

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

Inspector spoke with Mr. Wilson Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problems arose during the rain events that had to be fixed.

Thank you for the attention to the structure. The dam appeared in good overall shape on the day of the inspection.

Please continue to monitor any erosion that is occurring and fix as needed to prevent further damage to the structure.

*** All directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Large and small trees, dirt, pine needles, briars
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes
- v. Settlement or cracks visible in slope? Yes. Slope is uneven. Damage at the "turn"

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Large and small trees, leaves, briars, rusted barrels, other non-environmental debris
- ii. Animal activity observed? _____
- iii. Any obvious alterations or repairs made? no
- iv. Erosion observed on down stream slope? Yes
- v. Settlement or cracks visible in slope? Yes
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: At the right side of the dam adjacent to the toe was a large pool of water. Water did not appear to be flowing. This area needs to be monitored closely for signs of changes to the seepage - change in color, amount, etc.

D. Primary Spillway

- i. Any visible deterioration of structure? Did not see the 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? Possible outlet pipe found along toe of the dam
Water trail leading from this area. If this is an outlet pipe, the pipe needs to be uncovered.
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: Not a defined channel

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Right Emergency spillway - clear path until it hit the tree line on the backslope of the dam.
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? Yes - but this appears to be from vehicles
not water
- iv. Any visible deterioration of structure's crest? No

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? No

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

A routine inspection could not be performed due to site conditions. The slopes are uneven and steep. The amount of unwanted vegetation along with the leaves/pine needles covering the ground made it difficult to inspect the surface of the structure. Please remove all small trees/brush/briars from the structure (anything with a diameter less than four inches).

Your goal is to maintain a grass cover across all aspects of the dam.

Please monitor the seepage point found in the inspection.

Please uncover the outlet pipe found on the back slope of the structure.

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 2971 & Hazard Class Significant B. Name of Dam: Scurry Dam
C. Inspection Date (11/06/2014) & Time: 10:53 AM D. Date of Last Inspection: (12/13/2011)
E. Location-County/City: Laurens / Waterloo F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: S.S. Wilson Properties, LLC
I. Contact Person (if different from above): Stephen Wilson
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 233 - 5857
Office () -
Other (864) 982 - 1184
K. Dam Owner's or Contact Person's mailing address:
Address 1 109 Pine Forest Drive
Address 2 (optional)
City Greenville, State SC Zip Code 29601 -

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 consists of a DOT maintained road and grass shoulders, a few cracks in the asphalt and a couple of asphalt patches
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, trees and weeds along waters edge, area between water and spillway pipes needs to be cleaned out
- ii. Animal activity observed? One animal track was visible
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes (owner has replaced rip-rap in areas that had eroded in the past)
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Weeds, grass, small trees, briars
- ii. Animal activity observed? Could not inspect properly due to the steepness of the slope
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Several area of depressions, sloughs, erosion - backslope is not even. This has been noted in previous inspections. Inspector does not know if areas have worsened since the last inspection
- v. Settlement or cracks visible in slope? Several area of depressions, sloughs, erosion - backslope is not even. This has been noted in previous inspections. Inspector does not know if areas have worsened since the last inspection
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Could not inspect properly due to the steepness of the slope

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? Log is in the discharge end of of the a spillway pipe. All debris should be removed in the pipes, leading to the pipes, and in the outlet discharge area to ensure water has a free path to flow
- iv. Is valve or gate present? N/A

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: Clear with some debris. Monitor the sides of the slope on the southeast side of the outlet channel to ensure sediment displaced from erosion activities does not block the spillway path. Stone placed in discharge water path covered up with sediment.

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? _____

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? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No. One will be mailed with this report

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:

Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope, wet conditions, and not having a non-briar filled path to the backslope).

Please continue to monitor the slopes of the dam closely. Please call the Department if you notice any changes.

Your goal is to maintain a grass cover across all aspects of the dam. All brush/weeds/briars/etc should be removed from the area between the water and the spillway pipes, the primary spillway discharge area, the front slope, and the back slope

After returning to the office, inspector compared photographs from current inspection to past inspections. It was noted that in 2008 after the spillway pipes were installed, stone was placed between the discharge end of the pipes and went downstream close to the water path. It appears that this area is now filled with sediment and vegetation. You probably should repair this area to look as it did in 2008 after the repairs to the structure were made.

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 2989 & Hazard Class Significant B. Name of Dam: Bailey Dam 2
C. Inspection Date (02/13/2015) & Time: 10:00 AM D. Date of Last Inspection: (02/09/2012)
E. Location-County/City: Laurens / Clinton F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Dixon Land Company, L.P.
I. Contact Person (if different from above): Norman Dixon
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other (404) 273 -5433
K. Dam Owner's or Contact Person's mailing address: Address 1 16 Peachtree Street Address 2 (optional) City Clinton, State SC Zip Code 29325 -

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)? Majority of the crest is Grass, vehicles drive 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)? Mature trees, thick pine straw covering, brush, vegetative debris

Owner has worked to remove excess vegetation on the dam - especially in the vicinity of the southeast corner of the dam

ii. Animal activity observed? Yes - beavers

iii. Any obvious alterations or repairs made? Have been working on clearing brush out of southeast corner (front and back slopes)

iv. Erosion observed on upstream slope? Appears to be some erosion that has occurred along the western border near the crest.

v. Settlement or cracks visible in slope? Slope along the western border is very uneven and several inches of pinestraw

C. Down Stream Slope

i. Vegetation (grass, trees weeds)? Briars, pine trees, very steep, brush

Debris from cutting on outlet side, Owner has worked to remove excess vegetation on the dam - especially in the vicinity of the southeast corner of the dam

ii. Animal activity observed? Yes

iii. Any obvious alterations or repairs made? Clearing of excess vegetation in areas

iv. Erosion observed on down stream slope? Could not inspect closely due to site conditions

v. Settlement or cracks visible in slope? Unable to fully inspect the back slope

vi. Toe drains flowing? _____

vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Could not fully inspect due to site conditions

D. Primary Spillway

i. Any visible deterioration of structure? Two spillways exist: One is along the western border - pipe did not appear rusty

Second is on the southeast corner of the dam - pipe was under water

ii. Is there an obvious need to repair or replace trash rack? Ensure both spillways have a trash rack

iii. Any noticeable problems with debris? No

iv. Is valve or gate present? A valve was present on the downstream side of the pipe on the southeast side of the dam

E. Outlet Pipe

i. Any water visibly flowing or leaking outside of the discharge pipe? Pipe along western border is under water in

downstream pond, no visible flowing water at other discharge pipe

ii. Describe any deflection or damage observed to the pipe: None on 2nd pipe

iii. Visible condition of outlet channel: Clear

F. Auxiliary (Emergency) Spillway

i. Noticeable obstructions to flow? Inspector is unsure what is considered the emergency spillway (the pipe in the SE corner of the northern border of the dam?)

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? 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, 2/12/15

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:

Donnie Loftis, Bailey Dixon, Norman Dixon talked with me before and after the inspection

Please continue to work on clearing the excess debris off the slopes of the dam. In general, all vegetation that is less than four inches in diameter should be removed from the structure. Please keep the vegetation cut back on a regular basis so it does not grow out of hand again. After removal of vegetation, re-establish a grass cover across all aspects of the structure.

I was unable to perform a full inspection due to site conditions: steepness of slopes, thick layers of pine straw preventing me from viewing the ground, and the excess vegetation.

*** All directions are given looking downstream

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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.

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- A) Dam Number; Enter the Dam's inventory number.
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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.
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- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 2996 & Hazard Class C2 B. Name of Dam: Loblolly Timberlands Dam
C. Inspection Date (11/29/2012) & Time: 11:40 AM D. Date of Last Inspection: (11/17/2009)
E. Location-County/City: Laurens / Clinton F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Emily F Bailey
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 833 - 2741
Office () -
Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 PO Box 380
Address 2 (optional)
City Clinton, State SC Zip Code 29325 -

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)? Leaves, Large trees
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)? Trees, large and small
- 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)? 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? N/A
- 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? There is not a primary spillway
- ii. Is there an obvious need to repair or replace trash rack? Not Applicable
- iii. Any noticeable problems with debris? Not Applicable
- iv. Is valve or gate present? Not Applicable

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? There was not an outlet pipe.
- ii. Describe any deflection or damage observed to the pipe: There was not an outlet pipe.
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

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

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? No

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

A large number of trees exist on the structure. Some of the trees have already fallen over. Your goal should be to maintain a grass cover over all portions of the dam. Due to the condition of the dam on the day of the inspection, you should have a Professional Engineer evaluate the dam.

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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.
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- 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.

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- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

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Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 2999 & Hazard Class SIGNIFICANT B. Name of Dam: LAWSON LAKE
C. Inspection Date (02/25/2015) & Time: 10:57 D. Date of Last Inspection: (11/20/2010)
E. Location-County/City: LAURENS / CLINTON F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, DANNI HALLMAN
H. Owner's Name: WHITTEN CENTER
I. Contact Person (if different from above): DALE HAYES
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 938-3548 Other () -
K. Dam Owner's or Contact Person's mailing address: Address 1 PO BOX 239 Address 2 (optional) City CLINTON, State SC Zip Code 29325 -

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, vehicles have caused muddy areas and ruts (especially on the northwest end of the dam)
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)? Majority of the upstream slope has a grass cover.

The brush/weeds/briars along the waterline need to be removed before they grow any larger.

ii. Animal activity observed? animal paths were evident

iii. Any obvious alterations or repairs made? No

iv. Erosion observed on upstream slope? No

v. Settlement or cracks visible in slope? There were several areas where settlement was evident. These areas should be monitored closely to look for any changes that may be occurring

C. Down Stream Slope

i. Vegetation (grass, trees weeds)? Majority of the down stream slope has a grass cover.

ii. Animal activity observed? animal paths were evident

iii. Any obvious alterations or repairs made? No

iv. Erosion observed on down stream slope? No

v. Settlement or cracks visible in slope? There were several areas where settlement was evident. These areas should be monitored closely to look for any changes that may be occurring

vi. Toe drains flowing? Not Applicable

vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Difficult to detect seepage due to the recent rain events

excavate needs permit

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? Debris needs to be cleaned off of the trash rack

iv. Is valve or gate present? Inspectors could not see a valve stem

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: clear path away from the structure

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? Mud from vehicles on discharge side,

all components should be grassed

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?

The hazard classification should be checked to determine if this should be a High hazard Dam due to I-26. Central Office staff will look at the classification.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No. A blank copy will be mailed with this inspection report.

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:

Jason Keen (Whitten Center) attended the inspection.

There is a hole on the downstream slope, just above power pole on left. The hole had water in it. Per Jason Keen, this could be from the previous placement of the power poles (they have been moved recently). Please investigate the cause of this hole and take appropriate actions.

Please remember that the structure should consists of a vegetative (grass) cover - this includes the crest, back slope, front slope, and left emergency spillway.

Closely monitor the dam for seepage and for the settling that has occurred. Please call the Department if you notice any changes.

*** All directions are given looking downstream

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R.72-1 through R.72-9

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- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 3003 & Hazard Class C2 B. Name of Dam: Bedenbaugh Dam
C. Inspection Date (11/29/2012) & Time: 10:15 AM D. Date of Last Inspection: (12/04/2009)
E. Location-County/City: Laurens / Kinards F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, John Poole, Petar Milenkov
H. Owner's Name: Donald Devore
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home (803) 276-8814
Office () -
Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 3572 Bush River Road
Address 2 (optional)
City Kinards, State SC Zip Code 29366 -

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)? Narrow crest which consists of a dirt vehicular path and 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)? Grassed upstream slope
- ii. Animal activity observed? Yes.
- iii. Any obvious alterations or repairs made? No.
- iv. Erosion observed on upstream slope? Yes. Erosion observed on upstream slope adjacent to the crest of the dam.
Appears that there has been slope failure in the past.
- v. Settlement or cracks visible in slope? no.

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? The back slope is mostly void of excess vegetation (although a grass cover does not exist).
Please try and maintain a grass cover and to keep the trees off of the dam.
- ii. Animal activity observed? No.
- iii. Any obvious alterations or repairs made? Trees and brush have been removed from the structure.
- iv. Erosion observed on down stream slope? Yes. Water flows onto the backslope from the emergency spillway. A large area of erosion is visible in the path of the water.
- v. Settlement or cracks visible in slope? Areas of settling/erosion have occurred all across the down stream slope of the dam.
- vi. Toe drains flowing? N/A
- 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? There is not a primary spillway.
- 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? There is not a discharge pipe
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? The right emergency spillway has been blocked at the crest of the dam. Water can no longer flow across the crest and onto the backslope.
- ii. Animal activity observed? No.
- iii. Any noticeable deterioration in the approach or discharge channel? Unable to tell if the erosion on the backslope is worse than in previous inspections.
- iv. Any visible deterioration of structure's crest? No.

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? _____

None

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

Vegetation has been removed from the backslope since the last inspection. As a result, we were better able to perform our inspection. The dam appears to be in poor shape. There are signs of slope failures on the the front and back slopes of the dam. Please contact a Professional Engineer and have them perform a detailed evaluation of the dam.

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



C. Earl Hunter, Commissioner

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

Certified Mail
7012 0470 0000 4676 5610

December 04, 2012

Donald C Devore
3573 Bush River Road
Kinards, SC 29366

**Re: Re-inspection of Dam D-3003
Bedenbaugh Dam
Laurens County**

Dear Mr. Devore:

As you are aware DHEC is responsible for inspections of high and significant hazard dams to ensure their safety. On November 29, 2012, the Department conducted an inspection on the "Class 2 Significant Hazard" dam referenced above.

The results of the inspection are detailed on the attached inspection report.

I'm attaching a blank copy of an Emergency Notification Plan. Please fill out the form and return a copy to me. Retain a copy for your records. The plan lists a set of contacts to make in the event of a problem with the structure. It should be reviewed before significant rains and storms (e.g. hurricanes).

I am also enclosing a blank "Notification of Ownership Change" form. This form must be filed with the South Carolina Department of Health and Environmental Control in the event of transfer of ownership of the dam.

Due to the condition of the dam, we are requesting that you have a Professional Engineer perform a detailed analysis of the dam within ninety (90) days of the receipt of this letter. A copy of the report must be sent to me within this time frame as well. Please call me as soon as you have set something up with a Professional Engineer. I am including a list of Professional Engineers that have worked with the Department in the past. You are not limited to these Engineers and you may choose one not on this list.

The dam will be re-inspected in three years. If you have any questions or if I can be of any assistance prior to the re-inspection, please give me a call at 864-223-0333.

Sincerely,

Stephanie Hackett
District Engineer
Region I Greenwood EQC

Enclosures

Cc: John Poole, 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 3004 & Hazard Class 2 B. Name of Dam: Wallace Boyd Dam
C. Inspection Date (11/06/2014) & Time: 08:45 D. Date of Last Inspection:
E. Location-County/City: Laurens / Clinton F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Quaker Creek Timberland Co LLC
I. Contact Person (if different from above): Wallace Boyd
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 PO Box 266 Address 2 optional City Glendale State SC Zip Code 29346

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 with two gravel tracks for vehicular traffic
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)? The majority of the backslope had a grass cover. There is an area of trees/brush in the vicinity of the primary outlet discharge pipe. There is a small area of a few trees to the left of the primary spillway outlet.
- 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? N/A
- 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? There were a couple of logs on the trash rack - these need to be removed
- iv. Is valve or gate present? Yes. Owner turns the gate infrequently

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: Difficult to see due to the brush surrounding the outlet pipe area.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? There is a line of trees on the side of the emergency spillway path on the backslope. It does not appear that these trees will hinder water flow (left emergency spillway)
- 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? Owner signed EAP on-site

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

Yes, does not include a phone number for a downstream land owner. Plan updated on 11/7/14

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:

Per Mr. Wallace the dam was "rebuilt" in 1990.

Please continue to perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects of the structure. The majority of the dam is grassed. The brush and small trees (less than 4") in diameter should be removed from the primary spillway area to decrease the chances of roots entering the spillway system.

Please remove the debris from the trash rack (primary spillway)

*** All directions are given looking downstream

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
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- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

i. Vegetation (grass, trees weeds)? Majority of the upstream slope has a grass cover.

The brush/weeds/briars along the waterline need to be removed before they grow any larger.

ii. Animal activity observed? Animal paths were evident

iii. Any obvious alterations or repairs made? No

iv. Erosion observed on upstream slope? No

v. Settlement or cracks visible in slope? There were several areas where settlement was evident. These areas should be monitored closely to look for any changes that may be occurring. The majority of the settled areas have occurred in a vertical fashion.

C. Down Stream Slope

i. Vegetation (grass, trees weeds)? Grass

ii. Animal activity observed? Animal paths were evident

iii. Any obvious alterations or repairs made? No

iv. Erosion observed on down stream slope? No

v. Settlement or cracks visible in slope? here were several areas where settlement was evident. These areas should be monitored closely to look for any changes that may be occurring.

vi. Toe drains flowing? Right toe drain is flowing. The left toe drain pipe is broken. Investigate where the break in the pipe occurs. If, in order to fix the toe drain, you need to excavate any portion of the structure, please contact the Department first - you most likely need a repair permit to do this work.

vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: The soil was very soft and squishy near a couple feet above the toe on left. The recent rains make it difficult to determine if this was actual seepage.

There was not an evident flow. Please monitor this area closely and contact the Department if any changes occur.

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? Yes - debris needs to be cleaned out of the trash rack

iv. Is valve or gate present? Possibly saw a valve stem.

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: Clear

F. Auxiliary (Emergency) Spillway

i. Noticeable obstructions to flow? LES - mature trees on the approach side of the dam

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? _____

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? _____

The hazard classification should be checked to determine if this should be a High hazard Dam due to I-26. Central Office staff will look at the classification.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No. A blank one is being mailed with this report.

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:

Jason Keen attended the inspection.

Please remember that you should maintain a grass cover across all aspects of the structure.

Closely monitor the dam for any changes in the settlement that has occurred and for possible seepage. Please contact the Department immediately if you notice any changes.

If, in order to fix the toe drain, you need to excavate any portion of the structure, please contact the Department first - you most likely need obtain a Permit to Repair the Dam from the Department prior to performing the work. In order to obtain this permit, you will need to hire an Professional Engineer, registered in the state of South Carolina. This person would then obtain the permit and oversee the repair process.

*** All directions are given looking downstream

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 3008 & Hazard Class C2 B. Name of Dam: Beaverdam Warrior Creek WCD #4
C. Inspection Date (03/11/2014) & Time: 10:35 AM D. Date of Last Inspection: (01/20/2011)
E. Location-County/City: Laurens / Gray Court F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: BVRDAM-WARRIOR CK WCD
I. Contact Person (if different from above): Sammy Waddell, Lisa Goode (NRCS), Harold McClintock (NRCS)
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other (864) 347 - 0453
K. Dam Owner's or Contact Person's mailing address:
Address 1 NRCS District Office, Attn: Harold McClintok, 104 Ashley Lane
Address 2 (optional)
City Laurens, State SC Zip Code 29630 -

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)? Mostly grass, negligible amount of weeds/briars
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Some at waters edge
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, some briars
- 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?
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: The toe of the dam was soggy (to the left of the plunge pool). The water did not appear to be flowing along the ground. There were some puddles just downstream of the toe. This area was also soggy. Inspector unsure of the cause of this water. Please investigate.

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? Debris is against the spillway structure (side closest to the dam)
- iv. Is valve or gate present? Valve stem visible

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: Mostly clear, tree debris across path downstream of outlet

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? _____

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? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No, the form was handed to Harold McClintock prior to the start of the inspection.

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:

Dam appears to be well maintained. Please continue to perform routine maintenance of the structure. Ensure you are performing routine inspections to look for potential problems/changes to the structure.

Please monitor the water on the toe of the dam to determine if there is a seep, standing water, or a toe drain system.

If the problem worsens, please contact the Department.

*** All directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 3029 & Hazard Class C2 B. Name of Dam: CHARLIE'S CREEK NURSERY DAM
C. Inspection Date (11/21/2013) & Time: 9:57 AM D. Date of Last Inspection: (12/10/2010)
E. Location-County/City: ABBEVILLE / IVA F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, HANNAH VINSON
H. Owner's Name: CHARLIE'S CREEK NURSERY
I. Contact Person (if different from above): DON BLACK
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other (864) 617 - 6444
K. Dam Owner's or Contact Person's mailing address:
Address 1 PO BOX 669
Address 2 (optional)
City IVA, State SC Zip Code 29655 -

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)? Crest is a driveway to the office building. It is partially paved, partially sand/gravel.
ii. Animal activity observed? None observed
iii. Any obvious alteration or repairs made? Not since the last inspection
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? Pavement had many cracks in it.

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Vegetative cover.
- ii. Animal activity observed? Two areas of holes were found on the upstream slope. Area one was approximately 30 feet from the right side of the dam. Area two is close to the left side of the dam. Both of these areas had several holes of varying sizes. They could be the result of animal activity.
- iii. Any obvious alterations or repairs made? None observed
- iv. Erosion observed on upstream slope? Possible erosion observed adjacent to the water's edge (that or sloughing in other areas).
- v. Settlement or cracks visible in slope? The slope on the right side of the dam face is different than on the left side. Closely monitor the slopes of the dam to determine if settling or sloughing is occurring on the upstream face of the dam.

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Vegetative cover. A couple of trees adjacent to the groin on the right hand side of the dam.
- 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? Toe drains were capped in the past. See past inspection reports.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Approximately 2 feet above the toe drains is a horizontal strip running from just above the toe drains towards the left side of the dam that had several small wet areas. No flow was observed.

D. Primary Spillway

- i. Any visible deterioration of structure? Removed in the past.
- 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? Outlet pipe was removed in the past.
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Left emergency spillway serves as primary spillway. There are some trees beginning to grow along the emergency spillway ditch. A hole forming to right of where emergency spillway ditch goes under driveway (Nursery Valley Drive)
- ii. Animal activity observed? None observed
- iii. Any noticeable deterioration in the approach or discharge channel? No. The stone a couple of feet downstream on the backslope is separating (lines the emergency spillway channel)
- iv. Any visible deterioration of structure's crest? No

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? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No. Form 2606 left with a person the office at the end of the inspection.

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:

The holes noted in the upstream slope were also noted in 2010. Inspectors talked to Jake at the end of the inspection and he noted they had not looked into the cause of these holes. You need to determine what is causing the problems in these two areas and then perform maintenance to remedy the situation. Please remember that any non-routine maintenance may need to have a permit to alter the dam prior to fixing the situation. Please contact the Department if you have any questions about whether the work you are wanting to perform needs a permit from the Department.

Closely monitor the wet areas found above the toe drains on the back slope of the dam. Please contact the Department if you begin seeing larger areas of dampness, see actual flowing water, or if it seems that wet areas have discolored water.

All directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 3037 & Hazard Class C2 B. Name of Dam: Powell Pond Dam
C. Inspection Date (12/06/2012) & Time: 9:43 AM D. Date of Last Inspection: (6/15/2010)
E. Location-County/City: Abbeville / Abbeville F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Carter D Lawson
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other (864) 378 - 7072
K. Dam Owner's or Contact Person's mailing address:
Address 1 181 Milford Dairy Road
Address 2 (optional)
City Abbeville, State SC Zip Code 29620 -

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)? Grass, drivable
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/small trees
- ii. Animal activity observed? Yes
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes
- v. Settlement or cracks visible in slope? Maybe some settlement

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? briars/weeds/trees/ Difficult to inspect due to the abundance of unwanted vegetation.
- ii. Animal activity observed? No.
- iii. Any obvious alterations or repairs made? No.
- iv. Erosion observed on down stream slope? Yes
- v. Settlement or cracks visible in slope? Narrow crack running down the backslope of the dam.
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: I didn't find any but it was difficult to inspect the back slope of the dam.

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? Was unable to find the discharge pipe due to the vegetation.
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? 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? _____

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? No

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:

The dam was difficult to inspect due to the amount of vegetation along the backslope and toe of the dam. As a reminder, your goal should be to maintain a grass cover over all aspects of the dam. Please continue to work on bush hogging the dam on a regular basis. If a bush hog is unable to perform the work due to the size of the vegetation, a permit may be needed from the Department. If this is the case, please contact me.

Also, in 2010 the Department was notified of a cracked conduit. You were instructed to obtain a repair permit from the Department. If does not appear that this has occurred. Has repair work been conducted on this dam? I was unable to locate a primary spillway.

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4003 & Hazard Class C2 B. Name of Dam: Boyds Mill Pond Dam
C. Inspection Date (12/04/2012) & Time: 0930 D. Date of Last Inspection: (12/14/2009)
E. Location-County/City: Laurens / Laurens F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Northbrook Power Management
I. Contact Person (if different from above): Jeff McGraw
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other (828) 289 - 6675
K. Dam Owner's or Contact Person's mailing address: Address 1 14550 N Frank Lloyd Wright #210 Address 2 (optional) City Scottsdale, State AZ Zip Code 85260 -

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)? Clear of debris
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)? "upstream slope" is the pond. Minimal amount of debris against the spillway. _____
- 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)? Concrete spillway = downstream slope _____
- 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? Couldn't inspect. _____
- vi. Toe drains flowing? N/A _____
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Two seepage points observed at the left abutment (along the wall). Both places had a small trickle of water appears to be clear water. _____

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? Small amount of debris on the trash rack. Please have this cleared off. _____
- iv. Is valve or gate present? Yes. _____

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: _____
- iii. Visible condition of outlet channel: Outlet channel has rocks with some trees in it. Outlet channel should be clear so that water has an unobstructed path. _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? There is not an emergency spillway. _____
- 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? 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. 12/31/1995

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:

The trash rack and headgates have been replaced in the past four years.

Continue to monitor the seepage closely and contact us if there are any changes to the amount of color of the flow.

Continue to inspect the entire structure on a regular basis.

The emergency action plan needs to be updated. I provided you with the Departments current form.

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4035 & Hazard Class C2 B. Name of Dam: Walkers Pond Dam
C. Inspection Date (01/08/2012) & Time: 10:40 D. Date of Last Inspection: (11/09/2010)
E. Location-County/City: Abbeville / Abbeville F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Bill Stoll Jr
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 446 - 2121 Other (864) 378 - 8084
K. Dam Owner's or Contact Person's mailing address: Address 1 441 Cold Springs Road Address 2 (optional) City Abbeville, State SC Zip Code 29620 -

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)? Currently a dirt road void of vegetation.
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)? Area adjacent to crest is void of vegetation. There is some vegetation adjacent to the water.

ii. Animal activity observed? Yes. Series of small burrows northeast of the siphon system.

iii. Any obvious alterations or repairs made? No.

iv. Erosion observed on upstream slope? One area adjacent to the water northeast of the siphon system.

v. Settlement or cracks visible in slope? No.

C. Down Stream Slope

i. Vegetation (grass, trees weeds)? Grass with some bare areas

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? N/A

vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Wet area along the toe of the dam in the vicinity of the siphon system. Could be the result of rain in this shady area. Monitor this area.

D. Primary Spillway

i. Any visible deterioration of structure? No

ii. Is there an obvious need to repair or replace trash rack? _____

iii. Any noticeable problems with debris? _____

iv. Is valve or gate present? Gate valve has been installed on the discharge end of the siphon system.

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: Narrow

F. Auxiliary (Emergency) Spillway

i. Noticeable obstructions to flow? Pipes have deteriorated.

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? _____

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? No.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No. Handed to owner during the inspection and asked him mail it back to me.

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:

Your goal is to maintain a grass cover over all portions of the structure. _____

Please continue to watch the erosion on the front slope to ensure that it is not changing in size. _____

Ensure animals do not deteriorate the structure. _____

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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.

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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:

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- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



**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 4038 & Hazard Class Significant B. Name of Dam: Bailey Dam

C. Inspection Date (02/13/20 15) & Time: 10:30 AM D. Date of Last Inspection: (02/09/2012)

E. Location-County/City: Laurens / Clinton F. EQC Regional Office: Greenwood

G. Inspector's Name: Stephanie Hackett

H. Owner's Name: Dixon Land Company, L.P.

I. Contact Person (if different from above): Norman Dixon

J. Dam Owner's or Contact Person's Phone Numbers: Home (____) ____ - ____
Office (864) 833 - 2099
Other (404) 273 - 5433

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

Address 1 16 Peachtree Street

Address 2 (optional) _____

City Clinton, State SC Zip Code 29325 - ____

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, driveable
- 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? The back portion of the crest (adjacent to down stream slope) appears to be higher than the side that runs parallel to the front slope

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, tiny briars
- ii. Animal activity observed? Yes
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Erosion along bank
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, small amount of brush and debris
- ii. Animal activity observed? Yes
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Maybe
- v. Settlement or cracks visible in slope? Down stream slope appears to be uneven
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes By right groin at toe, not flowing, water was frozen at the time of the inspection, water appeared to consist of sediment

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? Stem is visible

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: Mostly clear

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Right Emergency Spillway (RES) - there is debris piled up on the downstream side of the dam blocking the path of water in the RES if it was to be used
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? There are ruts in the approach channel from vehicles
- iv. Any visible deterioration of structure's crest? No

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? 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, 2/12/15

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:

Norman Dixon, Donnie Loftis, Bailey Dixon spoke with the inspector prior to and after the inspection

Please continue to maintain a grass cover on this dam.

Closely monitor the seepage that was discovered. Please call the Department if you notice any changes to this area (color of seepage, amount of flow, etc).

Monitor any deficiencies listed above - fix any erosion as it occurs to prevent further damage, contact the Department if you notice any sifting/sloughing of the surface of the structure.

*** All directions are given downstream

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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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- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

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Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

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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 4058 & Hazard Class Significant B. Name of Dam: Creekside East Pond Dam
C. Inspection Date (01/07/2015) & Time: 09:00 AM D. Date of Last Inspection: (01/19/2012)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Creekside Homeowners Association
I. Contact Person (if different from above): Lary Davis
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other (864) 337 - 6304
K. Dam Owner's or Contact Person's mailing address: Address 1 106 Barrington Court Address 2 (optional) City Greenwood, State SC Zip Code 29649 -

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)? Asphalt road with grass shoulders
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? Cracks in asphalt perpendicular and parallel to the crest of the dam

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, a tree is growing in the northeast corner of the pond along the front slope
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes - along the intersection of the water and the front slope
- v. Settlement or cracks visible in slope? Settlement on the right corner of the front slope (possibly where trees have been removed in the past)

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, weeds, trees, briars
Have started cleaning off, continue removing all the way down the backslope of the dam including outlet area
- ii. Animal activity observed? Yes
- iii. Any obvious alterations or repairs made? The owners of the structure have been working on removing excess vegetation
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes. There were several wet areas along the right groin, the toe to the right of the primary outlet, beyond the toe on the right side of the dam, and along the toe on the left side of the primary outlet. Water was clearish to muddy. Inspector did not see flowing water - puddles, and soggy areas.

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? Water was flowing out of the outlet pipe.
Inspector could not get close enough to view close to the pipe. There is a large amount of erosion on the face of the dam immediately behind the pipe.
- ii. Describe any deflection or damage observed to the pipe: The top half of the pipe is bent back towards the dam. Inspector could not get close enough to see.
- iii. Visible condition of outlet channel: Water appears to be flowing away from the structure. Ensure the water has a clear path out of the area.

F. Auxiliary (Emergency) Spillway

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

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? No

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

A blank EAP and Notification of Ownership Change form was left with David Crofts at the time of the inspection.

Please continue to remove the excess vegetation from the slopes of the dam and in the area of the discharge pipe.

After removal of vegetation, you will need to ensure that the structure has a grass cover.

Closely monitor the seepage that has been found on the dam. Contact the Department if the amount of seepage changes, the color of the seepage, or you start seeing actual flowing seepage.

Monitor the erosion that has occurred on the down stream slope in the vicinity of the outlet discharge pipe. This area may need to be repaired to prevent further damage to the structure. Inspect this area to determine if there is water causing the erosion.

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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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- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4059 & Hazard Class Significant B. Name of Dam: Oakbrook Memorial Dam
C. Inspection Date (01/07/2015) & Time: 10:05 D. Date of Last Inspection: (01/19/2012)
E. Location-County/City: Greenwood / Hodges F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: OAKBROOK MEMORIAL PARK INC
I. Contact Person (if different from above): Denise Vianello
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 229-1559 Other () -
K. Dam Owner's or Contact Person's mailing address: Address 1 3007 Hwy 25 N Address 2 (optional) City Hodges, State SC Zip Code 29653 -

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)? Asphalt road with grass on edges
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 row of trees, bare ground around each tree
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes - along the waters edge
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? two rows of trees near crest, pine needles on the upper portion and grass on the lower portion
- 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? Yes - depressions just west of the bottom layer of trees
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes. Several seepage areas just inside the right groin. There was water pooling in these areas, the ground was squishy, but there was not visible flow. The ground was also very squishy just north of the primary outlet.

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? Yes - debris (pine needles) needs to be cleaned off of the trash rack
- 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. There is erosion surrounding where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.
- iii. Visible condition of outlet channel: Water does not appear to be flowing away from the discharge area. Determine where the blockage is and unblock the channel.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? There is a pump house in the left emergency spillway on the upstream slope.
- 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? No

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:

Your goal is to maintain a grass cover across all aspects of the structure.

Closely monitor the seepage that was found during the inspection and call the Department if there is a change in the color, the amount of seepage, or you see actual flows.

Please monitor the erosion that is occurring where the outlet pipe daylights. Please prevent further degradation of this area.

*** All directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4067 & Hazard Class C2 B. Name of Dam: Blakely Dam (Grace Dam 1)
C. Inspection Date (1/15/2014) & Time: 11:00 D. Date of Last Inspection: (01/25/2011)
E. Location-County/City: Laurens / Enoree F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, John Poole, Petar Milenkov
H. Owner's Name: Specialty Vermiculite Corporation
I. Contact Person (if different from above): Mike Balcher
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 969 3353 ext 279 Other (864) 969 - 3353
K. Dam Owner's or Contact Person's mailing address: Address 1 26383 Hwy 221 N Address 2 (optional) City Enoree, State SC Zip Code 29335 -

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)? dirt/mud
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? Working on the lift on the Upper part of the dam - have a permit to do this per John Poole
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Lower Dam - Grass, weeds, not excessive; Upper Dam - couldn't see
- ii. Animal activity observed? None observed on lower dam; upper dam couldn't see the upstream slope
- iii. Any obvious alterations or repairs made? None observed on lower dam; upper dam couldn't see the upstream slope
- iv. Erosion observed on upstream slope? None observed on lower dam; upper dam couldn't see the upstream slope
- v. Settlement or cracks visible in slope? None observed on lower dam; upper dam couldn't see the upstream slope

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Lower - grass, some trees, bare ground; Upper - bare soil, few trees and "wet weather" vegetation
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? Working on the lift on the upper part of the dam
- iv. Erosion observed on down stream slope? Long and deep gullies on the lower and upper dam.
- v. Settlement or cracks visible in slope? _____
- vi. Toe drains flowing? Yes
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: A routine inspection can not be performed on this dam due to site conditions. "Nomal seepage" noted in Ronald Mercer's inspection log that is kept on-site. Continue to monitor and if the seepage gets worse or if it changes color, contact the Department immediately

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? _____

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Could not get close enough to view the pipe.
The broken part of the pipe observed in past inspections has been cut off (remainder of the pipe was in tact per Mr. Balcher)
- ii. Describe any deflection or damage observed to the pipe: Could not get close enough to view the pipe.
- iii. Visible condition of outlet channel: Clear

F. Auxiliary (Emergency) Spillway

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

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? 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? 2-23-10

EAP does not meet FEMA requirements; Mr. Balcer said he would incorporate DHEC form into their EAP

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. Mike Balcer spoke with us prior to the inspection and led us on the inspection.

Recent rain events made it difficult to get to parts of the structure. The steepness and condition of the dam make it extremely difficult to inspect - therefore, spots checks are done from the toe of the dam and the crest of the dam.

Two logs are kept by dam owner: the first is a weekly log of what is done on the dam and the 2nd is a log of inspections by Mr. Ronald Mercer

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4089 & Hazard Class Significant B. Name of Dam: LAKE CHINQUAPIN DAM
C. Inspection Date (01/15/2015) & Time: 08:50 AM D. Date of Last Inspection: (02/09/2012)
E. Location-County/City: GREENWOOD / GREENWOOD F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT
H. Owner's Name: CHINQUAPIN COMMUNITY CORPORATION
I. Contact Person (if different from above): JOHN HOWARD
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other (864) 554 - 0361
K. Dam Owner's or Contact Person's mailing address:
Address 1 205 HUNTINGTON ROAD
Address 2 (optional)
City GREENWOOD, State SC Zip Code 29646 -

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)? asphalt road with grassed shoulders
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? Cracks in the road

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? Yes - adjacent to the western side of the pier
- v. Settlement or cracks visible in slope? Concrete along the shoreline has been damaged and is missing in places. This should be fixed. Depressions adjacent to manhole.

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, trees and shrubs growing up in vicinity of outlet pipe and upstream of it
Briars, veg in right groin and toe. Difficult to perform a normal inspection due to the excess vegetation.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Only in the vicinity of the left emergency spillway
- v. Settlement or cracks visible in slope? Exposed soil above spillway pipe
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Along the right toe there was a puddle of water, seepage along right groin all water appeared clear

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? Could not see in this vicinity due to the excess vegetation
- ii. Describe any deflection or damage observed to the pipe: There is a section on the right side of the discharge pipe that is missing
- iii. Visible condition of outlet channel: Mostly clear, water appears to be moving away from the structure

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Picnic table on front slope
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? Bare soil on the backslope against the crest
The "ditch" that had been eroded from overflows on the left side of the dam has been filled in with rip-rap.
- 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? No

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:

All excess vegetation needs to be removed from the backslope of the dam and the right toe of the dam. Your goal is to maintain a grass cover across all aspects of the dam. I could not fully look at the ground on the backslope or in the vicinity of the discharge pipe due to the vegetation.

Repairs need to be performed on the structure including any damaged areas: concrete along the water line, ensuring the rip-rap filled emergency spillway is suitable. Based on information received by the Department in the past couple of years, the hydraulic capacity of the dam should also be increased.

Please closely monitor the seepage on the structure. Please contact the Department if the amount or color of the seepage changes.

A hydraulic analysis with repair options was submitted to the Central Office Dam Staff for their review in November of 2014.

*** All directions are given looking downstream.

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4134 & Hazard Class C2 B. Name of Dam: Pucketts Ferry Dam A1
C. Inspection Date (01/22/2014) & Time: 1035 D. Date of Last Inspection: (01/21/2011)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Pucketts Ferry Homeowners Association
I. Contact Person (if different from above): Terry Brown
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 388 - 2147
Office () -
Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 PO Box 638
Address 2 (optional)
City Greenwood, State SC Zip Code 29648 -

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)? Road
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? Yes. Road had a section of new asphalt above where the new spillway pipe would be going under it.
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? Several cracks in the road.

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? Weir system has been installed (Permit # 24-0003).
- iv. Erosion observed on upstream slope? Erosion along the waters edge - mostly likely from wave action
- v. Settlement or cracks visible in slope? Soil has settled behind the Weir system box

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? Yes - catch basin has been installed along the toe of the dam on the left side. This serves the dam's weir system and the stormwater from the road. The "ditch" that had been dug out by water previously has been filled and grassed.
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? 2-3 feet downstream from crest above new pipe called contractor already
- vi. Toe drains flowing? N/A
- 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? Old spillway was cut and filled with concrete. New weir system has been installed and is in operation. No problems noted.
- 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? N/a

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: Mostly clear,

F. Auxiliary (Emergency) Spillway

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

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? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Department received EAP via mail on January 24, 2014

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes, 1/22/14

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:

The following gentlemen met me for the inspection: Terry brown, Jack Hill, Johnny Hodges, Jerry Simmons

Special condition #2 in the repair permit was not followed. Condition stated: "When construction is complete, the owner's engineer must notify DHEC in writing within 10 days that the dam has been properly constructed. DHEC will then schedule a joint inspection of the dam with the engineer. Once the final inspection is satisfactorily completed, DHEC will issue a Certification of Completion. You do not have the legal right to increase the impounded water surface elevation until the Department issues this certificate"

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4135 & Hazard Class C2 B. Name of Dam: Pucketts Ferry Dam C2
C. Inspection Date (01/22/2014) & Time: 1118 D. Date of Last Inspection: (01/21/2011)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Pucketts Ferry Homeowners Association
I. Contact Person (if different from above): Terry Brown
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 388 - 2147
Office () -
Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 PO Box 638
Address 2 (optional)
City Greenwood, State SC Zip Code 29648 -

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)? Road
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? In road

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? yes - adjacent to the water
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? Yes
- 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? N/a
- 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? Trash rack needs to be cleaned off
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Could not get adjacent to the pipe due to a fence that is surrounding the area to keep beavers off the dam. Leaking water was not observed from a distance
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Mostly clear to lake

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? _____

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? EAP received by the Department on 1/24/14

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes. 1/22/14

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:

Please continue to maintain the structure.

Also, prior to performing any work on the dam, a Permit to Repair or Alter the Dam must be obtained from the Department

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4136 & Hazard Class C2 B. Name of Dam: Pucketts Ferry Dam C1
C. Inspection Date (01/22/2014) & Time: 1057 D. Date of Last Inspection: (01/21/2011)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Pucketts Ferry Homeowners Association
I. Contact Person (if different from above): Terry Brown
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 388 - 2147
Office () -
Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 PO Box 638
Address 2 (optional)
City Greenwood, State SC Zip Code 29648 -

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)? 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? Yes
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Slight erosion adjacent to the water
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? Yes
- iii. Any obvious alterations or repairs made? Yes
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? N/A
- 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? Spillway structure is no longer useable. Structure was cut on the inlet side and then filled with concrete in September of 2014 per the gentlemen I met on-site
- 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? Spillway structure is no longer useable. Structure was cut on the inlet side and then filled with concrete in September of 2014 per the gentlemen I met on-site.
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? Grass is beginning to detroiarte on the downstream slope. Left Emergency was in use at the time of the inspection. Left emergency spillway is currently being used as the primary spillway.
- iv. Any visible deterioration of structure's crest? No

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? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? EAP was received by the Department on 1/24/14.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes. 1/22/14

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:

The following gentlemen met me for the inspection: Terry brown, Jack Hill, Johnny Hodges, Jerry Simmons

You are not authorized to perform work on a dam without a permit to repair or alter the dam. Filling the spillway with concrete is a permanent repair. A permit to repair or alter the dam should have been applied for and obtained prior to doing this work.

Per the representatives on-site, no more work was going to be performed on this dam. The dam cannot be left in its current condition. It does not meet hydraulic requirements set forth in the Regulations. You must meet with your engineer, prepare and submit a permit application and receive approval for this permit prior to performing any additional work.

In the meantime, please monitor the emergency spillway closely for damages that may be incurred. Extensive erosion in this area could cause the dam to fail.

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4320 & Hazard Class C2 B. Name of Dam: Rabon Creek WCD Dam 32
C. Inspection Date (12/14/2012) & Time: 9:45 AM D. Date of Last Inspection: (07/07/2010)
E. Location-County/City: Laurens / Laurens F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: LCWSC
I. Contact Person (if different from above): Tom Thomason
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 682 - 3250 Other (864) 923 - 0130
K. Dam Owner's or Contact Person's mailing address: Address 1 PO Box 1006 Address 2 (optional) City Laurens, State SC Zip Code 29360 -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? 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; some ruts
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? NO
- iv. Erosion observed on down stream slope? Some depressions on the southern end of the structure. Mr. Thomason stated these areas have not changed.
- v. Settlement or cracks visible in slope? No.
- vi. Toe drains flowing? 1 of the 2 toe drains is flowing.
- 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? Valve stem was visible.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Water is flowing through the drains on both sides of wall bordering the outlet channel
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: Clear path.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Clear path between the pond and the concrete outlet structure. Many trees at the base of this structure.
- 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? _____

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.

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:

Thank you for the continued upkeep of the structure. Please continue to monitor the depressions on the backslope of the dam and to watch the color and turbidity of the water being released from the toe drain system.

I did not see the pipes for the toe drain system - Mr. Thomason showed me the two areas where water is released on the surface near the toe of the dam.

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4360 & Hazard Class C2 B. Name of Dam: Lower Northlake Drive
C. Inspection Date (12/19/2013) & Time: 12:50 PM D. Date of Last Inspection: (01/05/2010)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, John Poole
H. Owner's Name: B.S.W. Inc, Lee Tremayne
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 1 162 Orchard Park Drive, Greenwood, SC 29649; 1012 Northlake Drive, Greenwood, SC 29649
Address 2 (optional)
City, State, Zip Code

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)? Trees, 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)? Trees, weeds
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Pine Trees, pinestraw
- ii. Animal activity observed? No. Downstream slope not fully inspected due to site conditions.
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No. Downstream slope not fully inspected due to site conditions.
- v. Settlement or cracks visible in slope? Downstream slope not fully inspected due to site conditions.
- vi. Toe drains flowing? _____
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Downstream slope not fully inspected due to site conditions.

D. Primary Spillway

- i. Any visible deterioration of structure? Owner (Boyce Banks with B.S.W. Inc) stated they are slowly draining the pond. To do this, they are cutting down (horizontal slices) the primary spillway structure so that the pond can drain.
- 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? No
- ii. Describe any deflection or damage observed to the pipe: No
- iii. Visible condition of outlet channel: Water was not pooling much at discharge pipe.

F. Auxiliary (Emergency) Spillway

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

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? No

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

Inspectors spoke with Mr. Boyce Banks prior to the inspection. He stated they want to eventually breach the dam.

They are currently working on draining the pond by taking slices out of the primary spillway. Pond water level was low

at the time of the inspection. Prior to breaching the dam or having to cut into the front slope any more (in order to cut

through the primary spillway pipe) requires that you discuss the manner with John Poole (803-898-4212) since

you must obtain a permit from the Department prior to doing any non-routine work on the dam.

If the current plan of action changes, please inform the Department.

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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.
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- 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.
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Section II (Dam Condition):

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- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4361 & Hazard Class C2 B. Name of Dam: Upper Northlake Dam
C. Inspection Date (12/19/2013) & Time: 11:00 D. Date of Last Inspection: (01/05/2010)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: John Poole, Stephanie Hackett
H. Owner's Name: Davis Heritage Family LLC, Kevin and Kristy Nichols, Brian Oaks
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 Address 2 (optional) City State Zip Code

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

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

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Majority of the crest is pine straw
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? Yes. Erosion has occurred at the border of the backslope and the crest. This is most likely due to overtopping. Per Kay Davis, some of this damage occurred in the summer of 2013 when the Fire Department was pumping over the crest to lower the water level.
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Pine trees, pine straw, weeds
- ii. Animal activity observed? Yes - appears to be beavers on this dam
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, weeds, briars
- ii. Animal activity observed? Inspectors were unable to perform a routine inspection due to the abundance of unwanted vegetation
- iii. Any obvious alterations or repairs made? _____
- iv. Erosion observed on down stream slope? Inspectors were unable to perform a routine inspection due to the abundance of unwanted vegetation
Erosion/land slides have occurred on the left side of the dam near the crest.
- v. Settlement or cracks visible in slope? Back slope is no longer an uniform slope.
- vi. Toe drains flowing? Not Applicable
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes. Left of the outlet pipe. Flow of water out of the brush to the right of the outlet pipe. Sources were not found due to the abundance of vegetation. Area surrounding the toe of the dam was saturated and John Poole believes this is a result of seepage not rain events.

D. Primary Spillway

- i. Any visible deterioration of structure? A white pipe was sticking out of the water in the vicinity of the primary spillway.
It appears that this white structure has been added since the last routine inspection.
- ii. Is there an obvious need to repair or replace trash rack? _____
- iii. Any noticeable problems with debris? _____
- iv. Is valve or gate present? Valve stem was visible

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Couldn't inspect closely.
- ii. Describe any deflection or damage observed to the pipe: Pipe is split on the bottom and rusted.
- iii. Visible condition of outlet channel: Fairly clear area into the downstream pond

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Yes. There is not a defined path for the water to flow out of the pond on the right side of the dam.
- 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? _____

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? _____

Not at this time.

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

The primary spillway has been altered and is not functioning as designed. _____

The abundance of vegetation on the backslope made it difficult to inspect. Therefore, a routine inspection could not be properly performed. _____

Seepage areas on the dam need to be monitored and looked at closely. _____

Right emergency spillway does not have a clear path for the water to flow out of it. _____

Back slope is not a smooth slope anymore. Land slides/settlement/etc have caused the slope of the backslope to change. _____

** In June of 2013 the dam overtopped. In December of 2013 the right emergency spillway was in use. _____

*** All directions are given looking downstream _____

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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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4405 & Hazard Class Significant B. Name of Dam: Curtail Dam

C. Inspection Date (11/18/2014) & Time: 09:50 AM D. Date of Last Inspection: (11/21/2011)

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

G. Inspector's Name: Stephanie Hackett

H. Owner's Name: R&R Golf, Inc.

I. Contact Person (if different from above): Sam Randazzo III

J. Dam Owner's or Contact Person's Phone Numbers: Home (____) ____ - ____
Office (864) 223 - 1250
Other (864) 554 - 1250

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

Address 1 702 Hunters Creek Blvd

Address 2 (optional) _____

City Greenwood, State SC Zip Code 29649 - ____

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
- 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? Yes - possibly from wave action. Please monitor and fix as needed to prevent further damage to the upstream slope.
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass. Trees are growing in the vicinity of the outlet structure. Your goal is to maintain a grass cover across all aspects of the structure. Please remove the small weeds/trees in the vicinity of the outlet pipe. This needs to be done on a regular basis.
- 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? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No. It also rained the day before the inspection so there were wet areas. Please inspect the dam regularly to look for seepage.

D. Primary Spillway

- i. Any visible deterioration of structure? Yes. A section of the trash rack (cap) is missing due to rust.
- ii. Is there an obvious need to repair or replace trash rack? Yes
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes. It is not exercised.

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: Water is pooling in the discharge area and standing in the outlet pipe. Clear any debris from the area to see if that will allow water to flow away from the discharge pipe. If this doesn't work, you may need to have a Professional Engineer look at the pipe.

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? 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

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:

Tim Rushton with Hunters Creek Golf Course attended the inspection.

It is recommended that you have someone look at the trash rack due to the section that has rusted away. You may want to consider having someone check the integrity of your spillway to ensure that it is not having rust problems.

If you choose to replace the trash rack, as long as you keep the same dimensions you will not need a Permit from the Department. Please feel free to contact us prior to any maintenance/replacement activities to determine if a Permit is needed.

Water does not appear to be flowing out of the outlet pipe downstream. Please ensure that debris is not blocking the flow of water. If this does not solve the problem, you may need to hire Professional Engineer (in the state of South Carolina) to perform an inspection of the structure to try and determine the cause.

Please continue to maintain a grass cover across all aspects of the dam.

Also, a repair permit from the dam may be needed for any non-routine maintenance activities. Please contact the Department if you have any questions related to this.

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Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9

INSTRUCTIONS

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Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4527 & Hazard Class Significant B. Name of Dam: Lakeside Country Club Dam
C. Inspection Date (11/10/2014) & Time: 09:30 AM D. Date of Last Inspection:
E. Location-County/City: Laurens / Laurens F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Lakeside Corp, Erskina A and Sara Jacks
I. Contact Person (if different from above): J R Hawkins
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 Address 2 City State Zip Code

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)?
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)? trees, stumps, weeds, debris.
- ii. Animal activity observed? Beavers (based on visual evidence of trees that have been "cut" down)
- 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)? Leaves, small trees, large trees, brush
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No active erosion was noted. Slope is uneven.
- v. Settlement or cracks visible in slope? Uneven slope
- vi. Toe drains flowing? N/A
- 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? Per Mr. Hawkins, the old primary spillway intake has been closed by the valve. The siphon system appears to be in decent shape
- 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? Valve stem visible for old spillway system. There are valves on the siphon system

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: Old discharge pipe is rusted and there is water flowing from the pipe. There was not any water flowing from the siphon system.
- iii. Visible condition of outlet channel: Clear

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Left emergency spillway - ensure water has a clear path from the pond, over the crest, and onto the backslope
- 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? No. One was handed to Mr. Hawkins at the time of the inspection. Mr. Hawkins stated he would fax it back

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:

J.R. Hawkins attended the inspection.

Your goal is to maintain a grass cover across all aspects of the structure. Per Mr. Hawkins, an engineer looked at the structure a couple years ago and suggested they work on removing all of the excess vegetation. Mr. Hawkins said they have started this process by removing the small vegetation first. Please continue to remove all small vegetation and debris from the front slope and back slope of the dam. Please remember that a permit from the Department may be required prior to removing the large trees. Please contact the Department to determine if a permit is required prior to beginning this work.

Front slope and back slope do not have even slopes. Please monitor the ground closely to determine if there is active erosion or sloughing. Please contact the Department if this occurs.

It appears that the valve is not fully shut on the old primary spillway

***all directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4529** & Hazard Class Significant B. Name of Dam: Carroll Thompson Dam

C. Inspection Date (12/23/2014) & Time: 09:19 PM D. Date of Last Inspection: (_/_/_)

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

G. Inspector's Name: Stephanie Hackett

H. Owner's Name: Carroll Thompson, Mary Burris, Laura Fanning

I. Contact Person (if different from above): Carroll Thompson

J. Dam Owner's or Contact Person's Phone Numbers: Home (_) --- - ---

 Office (_) --- - ---

 Other (864) 682 5622

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

Address 1 2956 Lakeview Drive

Address 2 (optional) _____

City Laurens, State SC Zip Code 29360 - ---

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)? Mud, 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? Minor erosion
- v. Settlement or cracks visible in slope? No

T

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, briars, pine needles, tree debris could walk, uneven slope, no soft areas, rain
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Yes. An eroded area several feet is adjacent to the toe of the dam and leads into the primary discharge outlet area.
- v. Settlement or cracks visible in slope? The slopes are uneven.
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No. It was difficult to look for because of recent rain events. I did not find any areas that were softer than others.

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? N/A

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Inspector was unable to get close enough to look closely at this area.
- ii. Describe any deflection or damage observed to the pipe: Inspector was unable to get close enough to look closely at this area.
- iii. Visible condition of outlet channel: Mostly clear

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? 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.

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. Thompson met the inspector for the inspection.

Your goal is to maintain a grass cover across all aspects of the dam. Please work on removing the small excess vegetation from the back slope of the dam. As discussed, you are generally safe removing the trees that are less than 4 inches in diameter. I was able to perform the majority of my inspection despite the vegetation on the down stream slope.

*** All directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4558 & Hazard Class Significant B. Name of Dam: Maxwell Springs Dam
C. Inspection Date (11/13/2014) & Time: 09:00 am D. Date of Last Inspection: (11/14/2011)
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Palmetto Resources LLC
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 PO Box 428 Address 2 optional City Greenwood State SC Zip Code 29748

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
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? Yes. Please monitor closely and fix any problems that may occur due to the animals
- 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, trees in vicinity out primary discharge pipe, trees along left groin, trees along backslope on the right side
- 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? N/A
- 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 visible rust from the vantage point of the inspector, top of structure is no longer level
- ii. Is there an obvious need to repair or replace trash rack? Part of the spillway is not covered by a trash rack.
- iii. Any noticeable problems with debris? Yes
- 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: No
- iii. Visible condition of outlet channel: Water is not flowing downstream, stagnanet and discolored water immediately downstream of the outlet pipe

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Trees along right section of backslope
- 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? _____

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? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No. One will be mailed with this report

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:

Your goal is to maintain a grass cover across all aspects of the dam. The small trees that are growing up in the vicinity of the primary outlet, the left groin, and across the right side of the backslope need to be removed before they get any larger.

The water discharging from the outlet is stagnant immediately below the pipe. Water needs to be able to flow freely downstream.

The debris needs to be removed from the top of the trash rack. Trash rack needs to cover the entire spillway opening. Ensure trash rack and riser are situated correctly on the pipe.

***All directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4779 & Hazard Class Significant B. Name of Dam: Gwalia Dam
C. Inspection Date (01/29/2015) & Time: 3:15 PM D. Date of Last Inspection: (03/16/2012)
E. Location-County/City: McCormick / Plum Branch F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Mr. Andy Owings
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 543-4109 Other () -
K. Dam Owner's or Contact Person's mailing address: Address 1 117 Waterford Drive Address 2 (optional) City Ninety Six, State SC Zip Code 29666 -

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)? grass, vehicular paths, exposed soil, exposed rock
ii. Animal activity observed? Yes
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)? Weeds, exposed soil, exposed rock, a few trees
- ii. Animal activity observed? Yes
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, weeds, exposed soil, briars, Thicker trees/briars farther down the slope. The unwanted vegetation made it difficult to inspect all aspects of the back slope of the dam
- ii. Animal activity observed? Yes
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No. Entire down stream slope could not be inspected.
- v. Settlement or cracks visible in slope? Yes. Entire down stream slope could not be inspected.
- vi. Toe drains flowing? N/A
- vii. Any seepage observed? If so, describe location, Approximately 5-15 feet to the right of the primary outlet there was a water flow rate, and any turbidity or color within the flow: puddle and water path near the toe of the dam. It did not appear to be flowing. Could not trace the path to the origin due to the unwanted thick vegetation.

D. Primary Spillway

- i. Any visible deterioration of structure? Siphon system needs to be installed as designed (air line needs to be reattached and set properly).
- ii. Is there an obvious need to repair or replace trash rack? If you are having problems with animals (or other items) getting into the lines, you can place a screen over the end of the lines.
- 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? Could not get close enough to inspect this.
- ii. Describe any deflection or damage observed to the pipe: Could not get close enough to inspect this.
- iii. Visible condition of outlet channel: Could not get close enough to inspect this.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? There are two pipes going through the dam in the right emergency spillway. The dirt and vegetation needs to be cleaned out in front of the pipes (upstream side). Ensure water can flow easily into, through, and out of the pipes.
- 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? _____

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? No

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

A proper inspection could not be performed due to the excess vegetation on the slopes of the dam. Your goal is to maintain a grass cover across all aspects of the structure. The excess vegetation needs to be removed from the structure.

Closely monitor the seepage on the backslope of the dam. Call the Department if you notice any changes (amount of seepage, color of seepage, etc).

* Chrissy Matthews, SCDHEC, attended the inspection.

*** All directions are given looking downstream

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.

- b) FAIR- No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.
- c) POOR- A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) NOT RATED- This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



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 4894 & Hazard Class C2 B. Name of Dam: Lanier Pond Dam
C. Inspection Date (01/27/2014) & Time: about 1:30 PM D. Date of Last Inspection:
E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, John Poole
H. Owner's Name: Willie Lanier
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 992 - 5624
Office () -
Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 9911 US HWY 25 S
Address 2 (optional)
City Troy, State SC Zip Code 29648 -

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)? dirt, roots
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? None observed

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

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

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, leaves, brush, briars
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? yes
- v. Settlement or cracks visible in slope? no
- vi. Toe drains flowing? N/A
- 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? Primary spillway appears to be adjacent to the phone pole that is in the water on the right side of the dam based on the action of the water in this area.
- ii. Is there an obvious need to repair or replace trash rack? A trash rack should be installed
- iii. Any noticeable problems with debris? Primary spillway inlet may need to be cleared off
- iv. Is valve or gate present? Inspectors did not see one

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: None observed - but difficult to see due to vegetation surrounding it
- iii. Visible condition of outlet channel: Clear

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Right emergency spillway - not a clear path - drops off on the back slope causing a large amount of erosion
- ii. Animal activity observed? Dead dog in the eroded part of the spillway
- iii. Any noticeable deterioration in the approach or discharge channel? Yes - on the downstream side there is now a gully at least five (5) feet deep
- iv. Any visible deterioration of structure's crest? No

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? _____

This dam was not previously on inventory. It has been added as a Significant Hazard dam (C2)

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? _____

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

Section IV (Conclusions)

General comments and recommendations:

Inspection performed on this dam after the Department received a phone call concerning the condition of the dam.

It was determined that this dam is a regulated dam based on the height of the structure.

There was a large number of roots visible on the crest of the dam. There were many large trees on the front and back slopes of the dam.

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