



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 2986 & Hazard Class High B. Name of Dam: Duncan Creek WCD Dam 2
C. Inspection Date (12/17/2014) & Time: 10:20 AM D. Date of Last Inspection:
E. Location-County/City: Laurens / Clinton F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, Samuel Madden
H. Owner's Name: Robert Blakely
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 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)? Majority of the upstream slope was grass. Majority of upstream slope is void of unwanted vegetation
- 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? Slope is uneven. Also appears that heavy equipment (most likely to bush hog the structure) has left horizontal flat areas on the slope. Also a vertical line of settlement/erosion near the crest that is in line with the spillway pipe. Soft areas.

### **C. Down Stream Slope**

- i. Vegetation (grass, trees weeds)? Grass, some briars
- 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? Uneven slopes. Soft areas. Also a vertical line of settlement/erosion near the crest that is in line with the 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: 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? Yes. Please remove debris from around the intake area.
- iv. Is valve or gate present? Handle was visible.

### **E. Outlet Pipe**

- i. Any water visibly flowing or leaking outside of the discharge pipe? Brush in vicinity so could not get close enough.
- 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? Trees adjacent to water (right emergency spillway). Clear, grassed spillway until behind 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? 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:**

Please continue to maintain a grass cover across all aspects of the structure. Please remove the brush that is growing up in vicinity of the primary outlet.

Please closely monitor the slopes of the dam. Please contact the department if you notice any changes.

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**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.



Catherine B. Templeton, Director

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

December 22, 2014

Robert E Blakely  
2150 Hwy 308  
Clinton, SC 29325

*Certified Mail: 7014 18200001 9331 7003*

NRCS – Laurens Office  
Attn: Lisa Goode  
221 W. Laurens Street, Suite C  
Laurens, SC 29360

*Certified Mail: 7014 1820 0001 9331 7010*

RE: Routine inspection of Dam D-2986  
Duncan Creek WCD Dam 2  
Laurens County

Dear Mr. Blakely and Ms. Goode:

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 December 17, 2014, the Department conducted its routine inspection of the “Class 1 High Hazard” dam listed above.

Thank you for the upkeep of the dam. Since the dam was void of excess vegetation, it was easy to inspect. Please closely monitor the settlement that is occurring near the crest in the vicinity of the spillway pipe on the front and back slopes of the dam. If you notice any changes, please contact Department. Please refer to the attached inspection report for details related to the inspection.

I am including 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 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. The Department does not have an EAP on file for this structure. A copy of the EAP must be received by the Department by April 01, 2015.

I am also enclosing 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.

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](mailto:hacketsa@dhec.sc.gov).

Thank you,

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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)

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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 3022 & Hazard Class C1 B. Name of Dam: BEAVERDAM WARRIER CREEK WCD 1M
C. Inspection Date (11/20/2013) & Time: 09:34 AM D. Date of Last Inspection: (12/14/2011)
E. Location-County/City: LAURENS / GRAY COURT F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, HANNAH VINSON
H. Owner's Name: BVRDAM-WARRIOR CK WCD
I. Contact Person (if different from above): SAM WADDELL / HAROLD MCCLINTOCK
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 876 - 5148
Office ( ) -
Other ( ) -
K. Dam Owner's or Contact Person's mailing address:
Address 1 104 ASHLEY LANE (MR. MCCLINTOCK)
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 [ ] c) Poor [ ] d) Unsatisfactory [ ] e) Not Rated [x]

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Crest was mowed day before inspection. Difficult to tell if there was a thick layer of grass due to the debris (weeds, briars, etc) on the crest
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? None observed
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? A section of the crest appeared lower (possible settling?) than the rest of the crest on the left side of the structure



## **Section III (Dam Inspection Checklist) continued**

### **B. Upstream Slope**

- i. Vegetation (grass, trees weeds)? Weeds, briars, saplings
- ii. Animal activity observed? Trails of varying widths on the front slope - not sure of the cause. Monitor these areas and repair as needed. Could not inspect upstream slope properly due to the abundance of unwanted vegetation
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Could not inspect due to the abundance of unwanted vegetation
- v. Settlement or cracks visible in slope? Could not inspect due to the abundance of unwanted vegetation

### **C. Down Stream Slope**

- i. Vegetation (grass, trees weeds)? Weeds, briars, saplings
- ii. Animal activity observed? Could not inspect due to the abundance of unwanted vegetation
- iii. Any obvious alterations or repairs made? Small clumps of trees noted in previous inspections have been removed.
- iv. Erosion observed on down stream slope? Could not inspect due to the abundance of unwanted vegetation
- v. Settlement or cracks visible in slope? Could not inspect due to the abundance of unwanted vegetation
- vi. Toe drains flowing? Could not inspect due to the abundance of unwanted vegetation
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Unable to look for seepage due to the abundance of unwanted vegetation

### **D. Primary Spillway**

- i. Any visible deterioration of structure? None observed
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? None observed
- iv. Is valve or gate present? Yes. Handle is not on the valve stem - being stored at Mr. Martin's house

### **E. Outlet Pipe**

- i. Any water visibly flowing or leaking outside of the discharge pipe? Unable to look at the outlet pipe due to the abundance of unwanted vegetation.
- ii. Describe any deflection or damage observed to the pipe: Unable to look at the outlet pipe due to the abundance of unwanted vegetation.
- iii. Visible condition of outlet channel: From the crest it looked clear but unable to inspect properly due to the abundance of unwanted vegetation.

### **F. Auxiliary (Emergency) Spillway**

- i. Noticeable obstructions to flow? Could not inspect due to the abundance of unwanted vegetation.
- ii. Animal activity observed? Could not inspect due to the abundance of unwanted vegetation
- iii. Any noticeable deterioration in the approach or discharge channel? Could not inspect due to the abundance of unwanted vegetation
- iv. Any visible deterioration of structure's crest? None observed (does not cross the 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 could not perform their routine inspection due to the abundance of unwanted vegetation on the slopes of the dam. Your goal should be to maintain a well-established stand of grass on the structure.

In addition, the dam needs to be mowed on a regular basis.

You should be performing routine inspections of the dam to look for problems as they develop.

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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

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- 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.

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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):

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.



Catherine B. Templeton, Director

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

*Certified Mail*  
7012 1010 0001 4629 7294

November 21, 2013

NRCS District Office – Laurens  
Attn: Harold McClintock  
104 Ashley Lane  
Laurens, SC 29360

**Re: Re-inspection of Dam D-3022  
Beaverdam Warriar Creek WCD 1M  
Laurens County**

Dear Mr. McClintock:

On Wednesday, November 20, 2013 the South Carolina Department of Health and Environmental Control (DHEC) conducted its routine inspection of the Beaverdam Warriar Creek WCD 1M Dam in Laurens County. I would like to thank Mr. Waddell for attending the inspection.

The dam could not be inspected properly due to the abundance of briars and unwanted vegetation on the upstream and downstream slopes as well as in the emergency spillway. If the dam is not inspectable at the time of the next inspection, the manner may be referred to our enforcement section since the Department was not able to inspect the dam in 2009 or 2011 either. The Department attempts to schedule the dam inspection at least 30 days in advance to allow time to mow the structure so that the Department can perform their regular routine inspection.

Your goal is to maintain an established stand of grass on all sections of the dam (crest, upstream slope, downstream slope, and the emergency spillway). The dam should also be inspected on a regular basis by the owner or a representative of the owner to look for changes in the structure or problems if they begin to develop.

I am sending you a blank copy of an Emergency Notification Plan. Please fill the form out, send a copy to me, and keep a copy for yourself. The plan needs to be reviewed before significant rains and storms (e.g. hurricanes). If you have an Emergency Notification Plan (other than the one the Department has provided in the past), please ensure it is up-to-date, contains at least the information provided in the Department's form 2606 dated 11/2012, and submit a copy to the local office.

I also am including a "Notification of Ownership Change" with this inspection letter. 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.

The dam will be re-inspected in two 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.

Our local address is 1736 S Main Street, Greenwood, SC 29646.

Thank you,

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Stephanie Hackett, P.E.  
District Engineer  
Region I Greenwood EQC

Enclosures

CC: Sam Waddell, Owner Representative



**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 3042** & Hazard Class High      B. Name of Dam: Sauer Pond Dam  
C. Inspection Date (02/05/2015) & Time: 9:34 AM      D. Date of Last Inspection: (01/02/2013)  
E. Location-County/City: Abbeville / Donalds      F. EQC Regional Office: Greenwood  
G. Inspector's Name: Stephanie Hackett  
H. Owner's Name: CF Sauer Company  
I. Contact Person (if different from above): William Lein (PO Box 546, Honea Path, SC 29654)  
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 2000 West Broad Street  
Address 2 (optional) \_\_\_\_\_  
City Richmond,      State VA      Zip Code 23220 - \_\_\_\_

**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, weeds, some trees
- ii. Animal activity observed? Yes (at a minimum - hogs)
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Yes (appears some of this is from the hogs). Please closely monitor and fix the erosion before it becomes a bigger problem.
- v. Settlement or cracks visible in slope? No

### C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? grass, weeds, trees, briars  
Excess vegetation made it difficult to perform a normal, routine inspection on the backslope of the dam.
- ii. Animal activity observed? Yes
- iii. Any obvious alterations or repairs made? Yes - a toe drain was located (previously cut off about 12 feet into the dam). PVC was used to extend the toe drain back out of the dam (permitted alteration)
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? Yes
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes . There is a strip of wet, bare (muddy) ground approximately 2-5 feet above the toe of the dam in the middle of the dam, approximately 15/20 feet to the left of the primary outlet and extending southwest to approximately 10 feet to the right of the primary outlet pipe. Sheen, no flow daylighting

### 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? Not evaluated

### 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 and narrow

### 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.

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:**

Per Mr. Lein, the structure was bush hogged in the spring of 2014. Prior to the next inspection, please try to bush hog the dam so that a routine inspection can be performed. Mr. Lein asked to be notified in the fall prior to the next inspection so that he can be ready.

The old primary outlet pipe still has a small flow of water coming out of it ("crimped" end of pipe was cut off in order to get a camera through it).

Inspector believes visible areas of seepage is due to seepage of the dam (toe drain problem that was addressed may or may not contribute). Please monitor the seepage closely and call the Department if you notice any water daylighting on the backslope or if the seepage appears to worsen.

Outlet pool area also had a sheen to it

\*\* Mr. William Lein attended the inspection

\*\*\* All directions are given looking downstream

**Preliminary Dam Inspection Disclaimer:**

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INSTRUCTIONS

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**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.



W. Marshall Taylor Jr., Acting Director

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

February 06, 2015

CF Sauer Company  
2600 W Broad Street  
Richmond, VA 23220

*Certified Mail 7014 2120 0001 7003 3692*

Mr. William Lein  
PO Box 546  
Honea Path, SC 29654

*Certified Mail 7014 2120 0001 7003 3708*

RE: Routine inspection of Sauer Pond Dam (D-3042)  
Abbeville County

To Whom It May Concern:

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 February 05, 2015, the Department conducted its routine inspection of the "Class 1 High Hazard" dam listed above. I would like to thank Mr. William Lein for meeting and walking with me on the inspection.

Please read through the attached inspection report for details related to the inspection. Also, the seepage on the backslope of the dam (near the toe) needs to be monitored closely. If you notice any changes, please contact the Department and your Engineer.

I left Mr. Lein 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 Mr. Lein 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 864-227-5915 or email me at [hacketsa@dhec.sc.gov](mailto: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)

---



W. Marshall Taylor Jr., Acting Director

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

May 29, 2015

Christopher Tribble  
216 Hanover Road  
Abbeville, SC 29620  
*Certified Mail: 7013 2250 0001 0630 5405*

Marty J Eason  
118 Hanover Road  
Abbeville, SC 29620  
*Certified Mail: 7013 2250 0001 0630 5412*

Richard and Beth Newton  
11 Hanover Court  
Abbeville, SC 29620  
*Certified Mail: 7013 2250 0001 0630 5429*

Emerald Investments  
2117 Hwy 72 W  
Greenwood, SC 29649  
*Certified Mail: 7013 2250 0001 0630 5436*

RE: Follow-up inspection of Dam D-4039  
Greenwood West Pond Dam  
Abbeville County

To Whom It May Concern:

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 Thursday, March 28, 2015, the Department conducted a follow-up inspection of the "Class 1 High Hazard" dam listed above.

Please see the attached inspection report for details related to the inspection. Thank you for the efforts that you have taken to remove the unwanted vegetation from the slopes of the dam. Please finish removing the unwanted vegetation and then obtain a good stand of grass on the structure. Also, your goal should be to maintain a good grass cover over your entire dam. By keeping your dam clean and accessible, it makes it easier for you to do regular visual inspections. These regular inspections often catch potential problems while they are still very easy (and less expensive) to correct.

I am enclosing a blank copy of an Emergency Action Plan (EAP). Please fill out this form for the structure. Please make a copy of the Plan and mail it/fax 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. This form needs to be returned to the Department by **July 15, 2015**.

I am also including 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.

If you have any questions or if I can be of any assistance prior to the re-inspection in two years, please give me a call at 864-227-5915 or email me at [hacketsa@dhec.sc.gov](mailto: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 (without enclosures)  
Brian Wisnewski, SCDHEC (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 4039 & Hazard Class High B. Name of Dam: Greenwood West Pond Dam
C. Inspection Date (05/28/2015) & Time: 3:10 P.M. D. Date of Last Inspection: (11/18/2014)
E. Location-County/City: Abbeville / Abbeville F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett
H. Owner's Name: Christopher Tribble, Marty Eason, Richard and Beth Newton, Emerald Investments
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 e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Road, with grass shoulders and guardrails on each side of the 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? Longitudinal cracks along the edges of the road. Near the middle of the dam is a longitudinal crack along the center of the road at the seam with several other cracks in the vicinity



## Section III (Dam Inspection Checklist) continued

### B. Upstream Slope

i. Vegetation (grass, trees weeds)? Grass on left side, weeds and heavy unwanted vegetation in the middle and right sides of the front slope (couldn't properly inspect the ground in these areas).

ii. Animal activity observed? Yes....animal paths were evident

iii. Any obvious alterations or repairs made? Excess vegetation has been cut since the last inspection

iv. Erosion observed on upstream slope? Yes....adjacent to waters edge

v. Settlement or cracks visible in slope? Settlement is apparent. Slope is uneven top to bottom and left to right (couldn't fully inspect due to the vegetation )

### C. Down Stream Slope

i. Vegetation (grass, trees weeds)? Bare areas, grass, pine straw, stumps

Near the outlet structure was weeds and trees

ii. Animal activity observed? Yes....animal paths were apparent

iii. Any obvious alterations or repairs made? Recently bush hogged, small trees cut

iv. Erosion observed on down stream slope? No

v. Settlement or cracks visible in slope? Vertical tracks....possibly from bush hogging operations. These areas start near crest but have larger cuts in slope at the top of the slope. Possible settlement near the crest towards the middle and left sides 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? No...but doesn't appear to be the original riser

ii. Is there an obvious need to repair or replace trash rack? Trash rack needs to be installed

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? Couldn't observe pipe due to vegetation in the area.

ii. Describe any deflection or damage observed to the pipe: Couldn't observe pipe and surrounding areas due to heavy unwanted

Vegetation

iii. Visible condition of outlet channel: Unable to observe due to heavy vegetation

### 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.

It has been requested that the Department look at the classification rating on the dam. If you would like the Department to do this, please put the request in writing and send it to SCDHEC Attn. John Poole, 2600 Bull St., Columbia SC 29201

**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:**

You need to monitor the slopes of the structure to look for active erosion/settlement/seepage. Please call the Department if you notice active erosion/settlement/seepage.

The majority of the unwanted vegetation has been removed from the structure. Please continue to work on removing the brush and trees in the vicinity of the outlet structure as well as the right side of the front slope of the dam. You will need to obtain a grass cover on the front and back slopes of the dam. Please remove excess vegetation on a regular basis (i.e. at least twice a year).

Mr. Eason, Julie Hunt, and Mark Atkins spoke with the inspector following the inspection.

\*\*\* All directions are given looking upstream

**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 4309 & Hazard Class C1 B. Name of Dam: LITTLE RIVER WATERSHED 2B
C. Inspection Date (11/20/2013) & Time: 10:41 AM D. Date of Last Inspection: (12/13/2011)
E. Location-County/City: LAURENS / LAURENS F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, HANNAH VINSON
H. Owner's Name: CITY OF LAURENS
I. Contact Person (if different from above): TOMMY BURNS
J. Dam Owner's or Contact Person's Phone Numbers: Home ( ) - Office ( ) - Other (864) 939 - 9010
K. Dam Owner's or Contact Person's mailing address: Address 1 250 WEST LAURENS STREET 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 [x] c) Poor [ ] d) Unsatisfactory [ ] e) Not Rated [ ]

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Well-established vegetative cover.
ii. Animal activity observed? None observed
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? None observed
v. Any visible settlement, misalignment or cracks? None observed

## **Section III (Dam Inspection Checklist) continued**

### **B. Upstream Slope**

- i. Vegetation (grass, trees weeds)? Well-established vegetative cover.
- ii. Animal activity observed? It appears that animals have been on the dam because the grass was flattened in a couple areas on the bank of the pond. Damage past the grass was not observed.
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? None observed
- v. Settlement or cracks visible in slope? None observed

### **C. Down Stream Slope**

- i. Vegetation (grass, trees weeds)? Well-established vegetative cover. A tree is to the right of the discharge pipe. It does not appear that this tree is blocking the pipe.
- ii. Animal activity observed? None observed
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? None observed
- v. Settlement or cracks visible in slope? None observed
- vi. Toe drains flowing? Not Applicable
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None observed

### **D. Primary Spillway**

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

### **E. Outlet Pipe**

- i. Any water visibly flowing or leaking outside of the discharge pipe? None observed
- ii. Describe any deflection or damage observed to the pipe: None observed
- iii. Visible condition of outlet channel: Mostly clear. Several feet downstream of the primary discharge pipe is a large area of rip-rap.

### **F. Auxiliary (Emergency) Spillway**

- i. Noticeable obstructions to flow? Left Emergency Spillway is clear until approximately 10-15 downstream of the crest. There are many trees between the fence at this point and the ditch that the emergency spillway feeds into.
- ii. Animal activity observed? None observed
- iii. Any noticeable deterioration in the approach or discharge channel? None observed in the section that was inspectable
- iv. Any visible deterioration of structure's crest? None observed

**F. Auxiliary (Emergency) Spillway continued**

v. If applicable, any observed exposure of rebar reinforcement? Not Applicable

vi. If applicable, any visible leakage below concrete spillway? Not Applicable

**H. Downstream/Hazard Class Issues**

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

None observed

**I. Emergency Action Plan (EAP)**

i. Emergency Action Plan provided by owner? No. EAP was emailed to Tommy Burns on October 24, 2013

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:**

Non-DHEC employees present at inspection: Lisa Goode (NRCS), Jesse Harris (NRCS), Tommy Burns (City of Laurens)

Please continue to maintain a vegetative cover over all aspects 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.
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- 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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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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- 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.



Catherine B. Templeton, Director

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

*Certified Mail*  
7013 1090 0001 6157 3576

November 21, 2013

City of Laurens  
Attn: Tommy Burns  
250 West Laurens Street  
Laurens, SC 29360

**Re: Re-inspection of Dam D-4309  
Little River Watershed Dam  
Laurens County**

Dear Mr. Burns:

On Wednesday, November 20, 2103 the South Carolina Department of Health and Environmental Control (DHEC) conducted its routine inspection of the Little River Watershed 2B Dam in Laurens County. I would like to thank you as well as Lisa Goode and Jesse Harris for meeting us at the dam.

Thank you for the continued upkeep of the structure. Please refer to the attached inspection report for details related to the inspection.

To answer the question about why this dam is a high hazard dam, it appears that it is because of the house located on the southeast portion of parcel 352-00-00-002.

I am sending you a blank copy of an Emergency Notification Plan. Please fill the form out, send a copy to me, and keep a copy for yourself. The plan needs to be reviewed before significant rains and storms (e.g. hurricanes).

I also am including a "Notification of Ownership Change" with this inspection letter. 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.

The dam will be re-inspected in two 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. Our local address is 1736 S Main Street, Greenwood, SC 29646.

Thank you,

---

Stephanie Hackett, P.E.  
District Engineer  
Region I Greenwood EQC

Enclosures



W. Marshall Taylor Jr., Acting Director

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

February 18, 2015

Lake Greenwood LLC  
Attn: Paul Valiquette  
957 Elm Street  
Somerset, MA 02726

RE: Routine inspection of Dam D-4501  
Ralph J McClendon Dam  
Greenwood County

Dear Mr. Valiquette:

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 Thursday, February 12, 2015, the Department conducted a follow-up inspection of the "Class 1 High Hazard" dam listed above. I would like to thank Mr. Walters and Mr. Alexander for attending the inspection.

Thank you for working to get the excess vegetation cleared off of the structure in the timeline outlined in the inspection letter dated December 02, 2014. Please see the attached report for details related to the inspection.

I left you a blank copy of an Emergency Action Plan (EAP) in November of 2014. Please complete this form (if you need an additional form please let me know). Please make a copy of the EAP 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 in November of 2014 (if you need an additional form please let me know). This form must be filed with the Department in the event of transfer of ownership of the dam.

If you have any questions or if I can be of any assistance prior to the re-inspection of the dam, please give me a call at 864-223-0333 or email me at [hacketsa@dhec.sc.gov](mailto:hacketsa@dhec.sc.gov). High hazard dams are currently inspected once every two years.

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



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 4501 & Hazard Class High B. Name of Dam: RALPH J MCCLENDON DAM
C. Inspection Date (02/11/2015) & Time: 1:02 pm D. Date of Last Inspection: (11/21/2014)
E. Location-County/City: GREENWOOD / NINETY SIX F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT
H. Owner's Name: LAKE GREENWOOD LLC
I. Contact Person (if different from above): PAUL VALIQUETTE
J. Dam Owner's or Contact Person's Phone Numbers: Home ( ) - Office ( ) - Other (774) 258 - 2362
K. Dam Owner's or Contact Person's mailing address: Address 1 957 ELM STREET Address 2 (optional) City SOMERSET, State MA Zip Code 02726 - 4034

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)? Majority of the dam consisted of a grass cover
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? Erosion from animal activity beginning at the border of the crest with the down stream slope on the right side of the dam
v. Any visible settlement, misalignment or cracks? Crest appears to be uneven longitudinally and across the width of the dam Monitor the structure for any additional changes.

## Section III (Dam Inspection Checklist) continued

### B. Upstream Slope

i. Vegetation (grass, trees weeds)? Upstream slope has been cleared of excess vegetation since the last inspection, there was some debris from the removal of vegetation still on the ground. Finish removing the debris and re-establish a grass cover

ii. Animal activity observed? Yes - animal paths

iii. Any obvious alterations or repairs made? Yes - the excess vegetation has been removed

iv. Erosion observed on upstream slope? No

v. Settlement or cracks visible in slope? No

### C. Down Stream Slope

i. Vegetation (grass, trees weeds)? A couple of large trees remain on the down stream slope, there was still some debris from the removal of the vegetation, there were some bare areas. After you remove the debris, re-establish a grass cover

ii. Animal activity observed? Yes. Damage on the right side of the dam (possible burrow) and several animal paths

iii. Any obvious alterations or repairs made? Yes - excess vegetation has been removed

iv. Erosion observed on down stream slope? Yes - some of these may be from equipment used to remove vegetation

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: Yes. along the toe of the dam on the right side, Water was discolored, turbid, there was not a flow at the time

Closely monitor this area for changes in the color, turbidity, or amount flow. Call the Department immediately if you notice any changes

### 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 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: Clear

### F. Auxiliary (Emergency) Spillway

i. Noticeable obstructions to flow? Yes. There are many pine trees in the left emergency spillway in the approach channel

Water should have an unobstructed path through the 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? \_\_\_\_\_

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:**

This inspection was performed as a follow-up to the routine inspection performed on 11/21/14. The inspector was notified via email on 2/7/15 that the dam was ready for a re-inspection.

Larry Walters and Claude Alexander attended the inspection.

The excess vegetation has been removed from the structure.

A grass cover needs to be established

The erosion and damage that has been caused by the animals needs to be repaired to prevent any additional damage to the structure.

Closely monitor the seepage that was observed and notify the Department of any changes to the seepage area.

Please inspect the dam on a regular basis to look for potential problems as they may develop.

\*\*\* 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.



W. Marshall Taylor Jr., Acting Director

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

March 17, 2015

Mr. and Mrs. Michael Johnson  
PO Box 115  
Waterloo, SC 29834

*Certified Mail 7012 3050 0000 8223 1965*

Mr. Berry L Woods, Jr.  
122 Old Fairview Road  
Fountain Inn, SC 29644

*Certified Mail 7012 3050 0000 8223 1972*

Mr. and Mrs. Hoyt Graham  
5681 Norton Road  
Green Sea, SC 29545

*Certified Mail 7012 3050 0000 8223 1989*

Mr. Phillip E Satterfield  
2213 72/221 East  
Greenwood, SC 29649

*Certified Mail 7014 2120 0001 7003 3760*

Mr. and Mrs. Glenn Dehollander  
100 Heaven's Gate Lane  
Ware Shoals, SC 29692

*Certified Mail 7014 2120 0001 7003 3777*

Ms. Ora Pitts  
118 Twin Lakes Drive  
Moore, SC 29369

*Certified Mail 7012 2120 0001 7003 3784*

Ms. Ona L Pitts  
118 Twin Lakes Drive  
Moore, SC 29369

*Certified Mail 7012 2120 0001 7003 3791*

Mr. Ben McKinney and Ms. Jennifer Lowe  
PO Box 424  
Roebuck, SC 29376

*Certified Mail 7012 2120 0001 7003 3807*

Mr. and Mrs. David Holmes  
PO Box 219  
Waterloo, SC 29384

*Certified Mail 7012 2120 0001 7003 3814*

Mr. Claude Collins  
PO Box 944  
Duncan, SC 29334

*Certified Mail 7013 3020 0001 6789 2607*

McKee Farm LLC  
180 Windy Point Drive  
Waterloo, SC 29384

*Certified Mail 7013 3020 0001 6789 2614*

RE: Follow-up inspection of Dam D-4528 LP Pitts Dam  
Laurens County

Dear Property Owners:

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 Thursday, March 12, 2015, the Department conducted a follow-up inspection of the "Class 1 High Hazard" dam listed above. You are receiving this report since, according to Laurens County GIS records, you own property on the reservoir.

I was unable to completely perform a routine inspection due to the excess vegetation on the structure. Please remove all brush/briars/small trees (less than 6" in diameter) from the structure. Please call the Department when this has been completed so that a follow-up inspection may be performed. **The Department must be notified prior to September 14, 2015 that the excess vegetation has been removed and that the structure is ready for a follow-up inspection.** Please refer to the attached inspection report for details related to the inspection.

After removal of the small brush/briars/and trees, you will need to continue with Phase 2 and then Phase 3 of the process that was outlined during the inspection. Details for each phase can be found in the attached inspection report.

During the inspection, it was mentioned that the owners should refer to FEMA 534: Technical Manual for Dam Owners: Impacts of Plants on Earthen Dams. This document can be found online at: <http://www.damsafety.org/media/documents/owner%20documents/Operation,%20Maintenance%20and%20Inspection/fema-534-Plants%20on%20Dams%20Manual.pdf>. You may also do an online search for "FEMA 534" and it will be the first link. If you would like me to email you the link or mail you a paper copy, please contact me.

I am including a blank copy of an Emergency Action Plan (EAP). Please fill out one form for the structure, make a copy of the EAP, and mail it to my attention. Please also keep a copy for your records. The EAP 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 am also enclosing 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.

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](mailto: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)

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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 4528 & Hazard Class HIGH B. Name of Dam: L P PITTS DAM
C. Inspection Date (03/12/2015) & Time: 11:00 AM D. Date of Last Inspection: (11/06/2014)
E. Location-County/City: LAURENS / WATERLOO F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, JOHN POOLE, JAIME FORD
H. Owner's Name: 1. Jennifer Lowe and Ben McKinney 2. Ora Pitts
I. Contact Person (if different from above): SUSAN GLENN
J. Dam Owner's or Contact Person's Phone Numbers: Home ( ) - Office ( ) - Other (864) 580 - 0669
K. Dam Owner's or Contact Person's mailing address: Address 1 118 TWIN LAKES DRIVE Address 2 (optional) City MOORE, State SC Zip Code 29369 -

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, two gravel vehicular gravel tracks 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, brush, leaves covering the ground, large rocks at bank
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Could not fully inspect the upstream slope due to the excess vegetation
- v. Settlement or cracks visible in slope? Uneven slopes - appears there are areas of settlement

#### **C. Down Stream Slope**

- i. Vegetation (grass, trees weeds)? trees, brush, briars, leave cover
- ii. Animal activity observed? yes
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Could not fully inspect the down stream slope due to the excess vegetation
- v. Settlement or cracks visible in slope? Could not fully inspect the down stream slope due to the excess vegetation
- vi. Toe drains flowing? Possibly. To the right of the primary spillway outlet was an area of running water. Based on the drawings the Department had access too, this could be from a toe drain. The source of the water should be investigated. The toe drain was not visible
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: If the water in "vi" above is not from a toe drain, then it is seepage. The "daylight" point was not discovered, the water is flowing,

#### **D. Primary Spillway**

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? Yes. There is not currently a trash rack.
- iii. Any noticeable problems with debris? No.
- iv. Is valve or gate present? Valve stem was visible above the waterline. Valve stem is sitting at an angle.

#### **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, narrow

#### **F. Auxiliary (Emergency) Spillway**

- i. Noticeable obstructions to flow? Yes - trees
- 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:**

On-site for inspection: Mr. and Mrs. Glenn, David Holmes

A Plan of Action was discussed during the inspection. Phase 1: clear the brush, briars, weeds and small trees (less than 6" in diameter) off of the entire structure. Limbing of the larger trees will aid in the grass growing.

A grass cover should also be established. Phase 2: Clear the large trees (within the primary spillway corridor).

Prior to removing these trees, a Professional Engineer (registered in the state of South Carolina) will need to be involved.

A permit may need to be obtained from the Department in order to remove large trees. Phase 3: Removal of the large trees on the remainder of the structure. Again, a Professional Engineer (registered in the state of South Carolina) will need to be involved. A permit may need to be obtained from the Department in order to remove large trees.

Please fill out the EAP form and submit it to the Department.

If the amount of water/seepage coming out of the toe of the dam on the right side changes, of it it becomes turbid, you should 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.