

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

November 17, 2014

Mr. Tom Crouch, P.E. City of Camden 1000 Lyttleton St. Camden, SC 29020

Ms. Patricia Hough Covidien 90 E Hampton St. Camden, SC 29020

RE: D-0018 Kendall Lake Dam Periodic Inspection

Dear Mr. Crouch and Ms. Hough:

On November 5, 2014, Pee Dee BEHS Florence personnel conducted a routine inspection of the Kendall Lake Dam. This inspection was to determine that the above-mentioned dam is in compliance with the Dams, Reservoirs Safety Act Regulations (R.72-105 through R.72-145)

The following are areas of concern that were noted during the inspection:

- 1) The concrete of the emergency spillway is cracked and seeping in multiple locations, including at least one waterspout under pressure on the eastern end of the structure (above the outlet pipes). These cracks and seeps should be closely monitored by a qualified professional for any further deterioration and changes in flow and/or color.
- 2) The cracks and areas of seepage should be monitored for any vegetation or moss growth, which should be removed regularly.
- 3) Metal corrosion of the catwalk structure extending to the primary spillway was observed and would need be closely monitored.
- 4) Some outlet pipes were clogged and no or little discharge of water was observed. Discharge channels should be cleared of any blockages that may interrupt the water flow.
- 5) Brush and weedy vegetation on the downstream and upstream face of the dam make it difficult to monitor the area for seeps, erosion, and other signs of deterioration of the structure. Clearing the low-growing vegetation will allow inspectors to better monitor the structure.

It is our understanding that the City of Camden has an established routine maintenance program for the dam. This should include removing the brush and small trees, repairing any areas of erosion, maintaining a good cover of grass on the slopes, and keeping the spillway system free from obstructions and in good operating condition. Please include periodic inspections of the dam and inform this office of any significant changes or problems that may affect the safety of the dam.

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

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam. Notification forms (D-2605) are available from this office on request.

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. The emergency contact for your area is Kershaw County Emergency Preparedness. In an emergency, the KCEP office can be contacted by dialing 911 or 803-453-1522 during normal business hours.

Please do not hesitate to contact this office if you require further assistance or have any questions.

Sincerely,

Kevin Kim

Regional Engineer Associate

Keins Kim

SCDHEC

PEE DEE EQC Region - Florence/Sumter

kimkj@dhec.sc.gov 843.661.4825

Attachments

cc: John Poole, SCDHEC Bureau of Water, Dams and Reservoirs Safety Program



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

Section I (Owner's Information)	
A. Dam Number: D 0018 & Hazard Class 1	B. Name of Dam; Kendall Lake
C. Inspection Date (11/05/20 14) & Time: 10:00 AM	D. Date of Last Inspection: (10 / 27 / 2014
E. Location-County/City: Kershaw / Camden	F. EQC Regional Office: Sumter
G. Inspector's Name: Kevin Kim	
H. Owner's Name: Thomas H Couch of City of Camden, Patricia Hough	of Covidien
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers: Patricia, 803-424-2456	Home () Office (803)425 _ 6045 Other (803) 432 _ 2421
K. Dam Owner's or Contact Person's mailing address:	100 m on on on on on on on
Address 1 1000 Lyttleton St. Address 2 (optional)	
Address 2 (optional)	
City Camden , Sta	ite SC Zip Code 29020 _
idien - 90 E Hampton St. Camben, Section II (Dam Condition)	, SC 29020
General Condition Assessment (Select one of the fo	Housing).
	d) Unsatisfactory e) Not Rated
Section III (Dam Inspection Checklist)	
A. Dam Crest	*
i. Vegetation (grass, trees weeds)? None noted.	
ii. Animal activity observed? None noted.	
ii. Animal activity observed? None noted.	

	Vegetation (grass, trees weeds)? None noted.
ii.	Animal activity observed? None noted.
iii.	Any obvious alterations or repairs made? None noted.
iv.	Erosion observed on upstream slope? None noted.
٧.	Settlement or cracks visible in slope? None noted.
C. D	own Stream Slope
	Vegetation (grass, trees weeds)? Heavy vegetation growing at the end of the slope. This could interrupt the water flowing into downstream
ii.	Animal activity observed? None noted.
iii.	Any obvious alterations or repairs made? None noted.
iv.	Erosion observed on down stream slope? None noted.
V. 3	Settlement or cracks visible in slope? Small cracks were observed in multiple locations on the wall.
vi.	Toe drains flowing? Yes
D. P	pipes. This must be fixed before it becomes a major problem. rimary Spillway
	ny visible deterioration of structure? None noted.
ii. I	ny visible deterioration of structure? None noted. s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel
struct	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel une where it touches the water surface.
struct	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel
struct	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel use where it touches the water surface.
iii. iv. I	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel une where it touches the water surface. Any noticeable problems with debris? None noted. Is valve or gate present? Yes
iii. iv. I	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel use where it touches the water surface. Any noticeable problems with debris? None noted. Is valve or gate present? Yes
iv. I	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel une where it touches the water surface. Any noticeable problems with debris? None noted. Is valve or gate present? Yes
iv. iv.	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel une where it touches the water surface. Any noticeable problems with debris? None noted. Is valve or gate present? Yes Putlet Pipe In water visibly flowing or leaking outside of the discharge pipe? None noted.
struct iii. iv. iv. iii. C	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel are where it touches the water surface. Any noticeable problems with debris? None noted. Is valve or gate present? Yes Putlet Pipe In ywater visibly flowing or leaking outside of the discharge pipe? None noted. Describe any deflection or damage observed to the pipe: None noted. None noted.
ili. iv. lii. C	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel use where it touches the water surface. Any noticeable problems with debris? None noted. Is valve or gate present? Yes Putlet Pipe In water visibly flowing or leaking outside of the discharge pipe? None noted. None noted.
iv. III. A	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel correction where it touches the water surface. Any noticeable problems with debris? None noted. Is valve or gate present? Yes Publication of leaking outside of the discharge pipe? None noted. None noted. None noted. None noted. Visible condition of outlet channel: Several outlet pipes were clogged. No or relatively little discharge of water in these channels.
E. O i. A ii. C	s there an obvious need to repair or replace trash rack? Metal corrosion was observed on the bottom side of the steel use where it touches the water surface. Any noticeable problems with debris? None noted. Is valve or gate present? Yes Putlet Pipe In water visibly flowing or leaking outside of the discharge pipe? None noted. Describe any deflection or damage observed to the pipe: None noted. Visible condition of outlet channel: Several outlet pipes were clogged. No or relatively little discharge of water in these channels. In its least corrosion was observed on the bottom side of the steel Mone noted.

v. п аррисаот	e, any observed exposure of rebar reinforcement? None noted.
vi. If applicab	le, any visible leakage below concrete spillway? Cracks and seepage present. As mentioned in
section C (vii), fl	owing seepage was observed. Should be closely monitored for changes.
H. Downstrea i. Any noticea	m/Hazard Class Issues able changes immediately downstream of the dam that affects the hazard classification?
None noted.	
	Action Plan (EAP) Action Plan provided by owner? Yes. During the Inspection.
ii. Does EAP Yes. Updated in Nov	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?
	Conclusions) Iments and recommendations:
General com	ments and recommendations: dam, where right abutment is located, belongs to Covidien and was inspected. The point of contact for this
General com A portion of the operation of the da	aments and recommendations: dam, where right abutment is located, belongs to Covidien and was inspected. The point of contact for this m is Patricia. Brush and weedy vegetation growing along the fence (starting from left and right abutments)
General com A portion of the operation of the da	aments and recommendations: dam, where right abutment is located, belongs to Covidien and was inspected. The point of contact for this m is Patricia. Brush and weedy vegetation growing along the fence (starting from left and right abutments)
General com A portion of the operation of the da would need to be	aments and recommendations: dam, where right abutment is located, belongs to Covidien and was inspected. The point of contact for this m is Patricia. Brush and weedy vegetation growing along the fence (starting from left and right abutments) a cleared.
General com A portion of the operation of the dal would need to be Multiple locations	aments and recommendations: dam, where right abutment is located, belongs to Covidien and was inspected. The point of contact for this m is Patricia. Brush and weedy vegetation growing along the fence (starting from left and right abutments)
General com A portion of the operation of the dal would need to be Multiple locations to be present on	dam, where right abutment is located, belongs to Covidien and was inspected. The point of contact for this m is Patricia. Brush and weedy vegetation growing along the fence (starting from left and right abutments) a cleared. Is on the stairway from the gate to the spillway are wet due to cracks and seepages. More seepages seem both sides of the downstream but hard to be inspected due to low-lying vegetations.
General com A portion of the da portion of the da would need to be Multiple locations to be present on Cracks, seepage	dam, where right abutment is located, belongs to Covidien and was Inspected. The point of contact for this m is Patricia. Brush and weedy vegetation growing along the fence (starting from left and right abutments) a cleared.
General com A portion of the da portion of the da would need to be Multiple locations to be present on Cracks, seepage	dam, where right abutment is located, belongs to Covidien and was inspected. The point of contact for this m is Patricia. Brush and weedy vegetation growing along the fence (starting from left and right abutments) a cleared. Is on the stairway from the gate to the spillway are wet due to cracks and seepages. More seepages seem both sides of the downstream but hard to be inspected due to low-lying vegetations.
General com A portion of the of portion of the da would need to be Multiple locations to be present on Cracks, seepage need to be closel may be needed.	dam, where right abutment is located, belongs to Covidien and was inspected. The point of contact for this m is Patricia. Brush and weedy vegetation growing along the fence (starting from left and right abutments) a cleared. Is on the stairway from the gate to the spillway are wet due to cracks and seepages. More seepages seem both sides of the downstream but hard to be inspected due to low-lying vegetations.

Preliminary Dam Inspection Disclaimer:

The information contained in the preliminary inspection report is intended as an aid to identify those dams that require maintenance and/or repair actions to reduce their danger to human life or property only. It is not intended as professional engineering or consulting advice for conditions or situations present at individual dams. It is not a substitute for a detailed inspection, nor does it replace the need for services provided by registered professional engineers. If your dam is experiencing an unusual situation consult with engineering professionals to find an appropriate remedy. Preliminary inspections conducted by South Carolina Department of Health and Environmental Control (the Department) are provided "AS IS" and "as available", without warranties of any kind, either express or implied. Preliminary inspections consist only of a visual but technical examination of the dam and its appurtenant works. All findings are based solely on visual observations of the inspector at the time of the inspection. Common law holds that the storage of water is a hazardous activity and the Department does not assume any responsibility or risk for your actions or inactions. Dam owners are responsible for the safe operations and maintenance of their impoundment structures.



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

November 19, 2014

MacDonald Willet 1755 Springdale Dr. Camden, SC 29020

RE: D-1145 "MacDonald Willets Dam" PERIODIC RE-INSPECTION FOLLOWUP

Dear Mr. Willet:

The Department has the responsibility and authority to routinely inspect State regulated dams. On November 6, 2014, Pee Dee EQC Sumter personnel conducted routine inspection of the MacDonald Willet Dam. This inspection was to determine that the above-mentioned dam is in compliance with the Dams, Reservoirs Safety Act Regulations (R.72-105 through R.72-145)

The following are areas of concern that were noted during the inspection:

- 1) Trees located on the emergency spillway and the downstream slope of the dam will need to be evaluated by a trained professional on an individual basis, since their roots can cause "piping" of impounded water, and a falling tree can remove substantial amounts of soil, weakening the dam and possibly causing failure. Simply cutting down the trees is unacceptable, as a rotting stump can leave voids, which create animal habitat and pathways for water. Some trees may require removal, and, depending on the location of the removed trees, may require a permit from the Bureau of Water.
- 2) Brush and weedy vegetation on the downstream and upstream slope of the dam make it difficult to monitor the area for seeps, erosion, and other signs of deterioration of the structure. Clearing the downstream and upstream face of low-growing vegetation will allow inspectors to better monitor the structure.
- 3) Accumulation of woody debris on the trash rack/spillway inhibits flow. Debris should be removed from the trash rack.

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

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

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam. Notification forms (D-2605) are available from this office on request.

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

Notification and Action Plan is attached. Please complete this form and submit a copy to our office no later than December 18, 2014. The emergency contact for your area is Kershaw County Emergency Preparedness Agency. The KCEP office can be contacted by dialing 911 in an emergency or 803-425-1522 during normal business hours.

Please call if you require further assistance or have any questions.

Sincerely,

Kevin Kim

Regional Engineer Associate

Leving Kim

SCDHEC

PEE DEE EQC Region - Florence/Sumter

803-778-6548

Attachments

cc: John Poole, SCDHEC Bureau of Water, Dams and Reservoirs Safety Program



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations

R.72-1 through R.72-9

Section I (Owner's Information)	
A. Dam Number: D 1145 & Hazard Class 1	B. Name of Dam: MacDonald Willets
C. Inspection Date (<u>11/06/20</u> <u>14</u>) & Time: <u>15:00</u>	D. Date of Last Inspection: (12 / 04 / 2012
E. Location-County/City: Kershaw / Camden	F. EQC Regional Office: Sumter
G. Inspector's Name: Kevin Kim	
H. Owner's Name: McDonald Willets	9 3
. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home (<u>803</u>) <u>432</u> - <u>8659</u>
	Office (803)318 - 6405
/ Dam Ournale as Contest Describe weekling	Other ()
K. Dam Owner's or Contact Person's mailing address:	*
Address 1 1755 Springdale Drive	
Address 1 1755 Springdale Drive Address 2 (optional)	
Address 2 (optional)	tate SC Zip Code 29020 -
Address 2 (optional)	tate SC Zip Code 29020 -
Address 2 (optional) City Camden Section II (Dam Condition) General Condition Assessment (Select one of the form) a) Satisfactory b) Fair c) Poor	tate SC Zip Code 29020 collowing): d) Unsatisfactory e) Not Rated
Address 2 (optional) City Camden , Si Section II (Dam Condition) General Condition Assessment (Select one of the form) a) Satisfactory b) Fair c) Poor Section III (Dam Inspection Checklist) A. Dam Crest	tate SC Zip Code 29020 collowing): d) Unsatisfactory e) Not Rated
Address 2 (optional) City Camden , Si Section II (Dam Condition) General Condition Assessment (Select one of the form a) Satisfactory b) Fair c) Poor Section III (Dam Inspection Checklist) A. Dam Crest i. Vegetation (grass, trees weeds)? Grass should be kept in the condition of the form of the for	collowing): d) Unsatisfactory e) Not Rated
Address 2 (optional) City Camden , Si Section II (Dam Condition) General Condition Assessment (Select one of the feat) a) Satisfactory b) Fair c) Poor [Section III (Dam Inspection Checklist) A. Dam Crest i. Vegetation (grass, trees weeds)? Grass should be kept iii. Animal activity observed? None noted.	collowing): d) Unsatisfactory e) Not Rated

	stream Slope egetation (grass, trees weeds)? Weeds and brush make it difficult for inspection.
ii. A	nimal activity observed? None noted.
iii. A	ny obvious alterations or repairs made? None noted.
iv. E	rosion observed on upstream slope? None noted.
v. S	ettlement or cracks visible in slope? None noted.
	wn Stream Slope egetation (grass, trees weeds)? Small trees and brush heavily growing. Some large trees are present on toe of the dam, which
	eaken the dam structure. Trees should be evaluated for removal by a trained professional.
ii. A	nimal activity observed? None noted.
iii. <i>F</i>	ny obvious alterations or repairs made? None noted.
iv. E	rosion observed on down stream slope? None noted.
v. S	ettlement or cracks visible in slope? None noted.
vi. T	oe drains flowing? NA
. Pri	
	mary Spillway y visible deterioration of structure? None noted.
i. An	
i. An	y visible deterioration of structure? None noted.
i. An ii. Is iii. A	there an obvious need to repair or replace trash rack? None noted. None noted.
i. An ii. Is iii. A iv. Is	there an obvious need to repair or replace trash rack? None noted. In noticeable problems with debris? Large woody debris covers and blocks the opening. Should be cleared. It valve or gate present? Yes
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i. An ii. Is iii. A iv. Is i. Ar	there an obvious need to repair or replace trash rack? None noted. None noted. None noted. None noted. None noted. It is problems with debris? Large woody debris covers and blocks the opening. Should be cleared. It is valve or gate present? Yes
ii. Ar iii. Is iii. A iv. Is ii. O	there an obvious need to repair or replace trash rack? None noted. In noticeable problems with debris? Large woody debris covers and blocks the opening. Should be cleared. It valve or gate present? Yes It let Pipe y water visibly flowing or leaking outside of the discharge pipe? None noted.
i. An ii. Is iii. A iv. Is ii. Ar ii. Do	there an obvious need to repair or replace trash rack? None noted. In y noticeable problems with debris? Large woody debris covers and blocks the opening. Should be cleared. It valve or gate present? Yes It let Pipe Yes Woody debris covers and blocks the opening. Should be cleared. It let Pipe Yes Woody debris covers and blocks the opening. Should be cleared. It let Pipe Yes Woody debris covers and blocks the opening. Should be cleared.
i. An ii. Is iii. A iv. Is iii. A iv. Is iii. O iii. V	there an obvious need to repair or replace trash rack? None noted. In noticeable problems with debris? Large woody debris covers and blocks the opening. Should be cleared. It valve or gate present? Yes Interest of the discharge pipe? None noted. None noted. None noted. It is the pipe of the discharge pipe? None noted. It is the pipe of the discharge pipe? None noted. It is the pipe of the discharge pipe? None noted. It is the pipe of the pipe: None noted. It is the pipe of the
i. An ii. Is iii. A iv. Is iii. A iv. Is iii. O iii. V	there an obvious need to repair or replace trash rack? None noted. In noticeable problems with debris? Large woody debris covers and blocks the opening. Should be cleared. It valve or gate present? Yes It let Pipe Yes Wone noted. It was a present of the discharge pipe? None noted. It was a present of the discharge pipe? None noted. It was a present of the pipe: None noted. It was a present of the pipe: None noted. It was a present of the pipe: None noted. It was a present of the pipe: None noted. It was a present of the pipe: None noted. It was a present of the pipe
ii. An iii. Is iii. A iii. A iii. A iii. A iii. D iiii. V . Au iii. No rees s	there an obvious need to repair or replace trash rack? None noted. In noticeable problems with debris? Large woody debris covers and blocks the opening. Should be cleared. It valve or gate present? Yes Intelet Pipe In y water visibly flowing or leaking outside of the discharge pipe? In y water visibly flowing or leaking outside of the discharge pipe? In None noted.

	ency) Spillway continued observed exposure of rebar reinforcement? N/A
vi. If applicable, any	visible leakage below concrete spillway? N/A
H. Downstream/Haz i. Any noticeable ch None noted.	ard Class Issues anges immediately downstream of the dam that affects the hazard classification?
I. Emergency Action i. Emergency Action later late.	Plan (EAP) Plan provided by owner? Will be sent to the owner's home address. To be submitted at a
ii. Does EAP contai	ns emergency alert notification plan? If so, when was it last updated?
iii. Does EAP conta	n specific actions to take if the dam has failed or is near failure?
1) The dam inspection n	otification letter was sent to the owner's business address. He did not receive it. Spoke with the owner
after conducting an insp	ection. Another letter will be sent to the owner's home address.
2) Woody debris covers	the opening of the primary spillway where trash rack is located. Should be cleared since this could
prevent the water from	lowing into the outlet pipe and result in overflowing.
3) Heavy vegetations ar	e present throughout the dam structure. Low-growing vegetations on the crest, downstream and
upstream slope should	be removed. Some large trees on the emergency spillway and near toe of the dam should be
evaluated by a trained a	nd qualified professional. Any changes to the dam structure, including removal of trees, may require a
permit from the Bureau	of Water.
4) Monitor animal activit	y as the burrowing nature of some animals like rodents can be quite dangerous to the structural
integrity and performan	ce of a dam. The tunnels these rodents construct can serve as pathways for seepage. It is essential
that these animals and	heir activities be controlled to insure proper functioning of a dam.
5) Outlet pipe and wate	way should be periodically monitored for any blockage caused by debris and trees.
2) Callot Pipe and Water	way should be periodically monitored for any blockage caused by debris and trees.

<u>Preliminary Dam Inspection Disclaimer:</u>
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 R.72-1 through R.72-9

Section I (Owner's Information)	
A. Dam Number: D 2523 & Hazard Class C1 B. I	Name of Dam: Upper Sunny Hill
C. Inspection Date (12/04/20 12) & Time: 1430 hrs D.	Date of Last Inspection: (10 / 27 / 2010 _)
E. Location-County/City: Kershaw / Camden F. I	EQC Regional Office: R4 Sumter
G. Inspector's Name: Benjamin Gaston	
H. Owner's Name: FA Homeowners Association	
I. Contact Person (if different from above): South Lake Inc (218 Leonard C	Ir Camden SC 29020 per tax records)
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dom Oumor's or Contact Boross's mailing address.	Other ()
K. Dam Owner's or Contact Person's mailing address: Address 1 South Lake Inc.	
Anness I countake inc.	0
Address 2 (optional) 218 Leonard Cir	Zip Code _29020
Address 2 (optional) 218 Leonard Cir City Carriden , State SC Section II (Dam Condition)	
Address 2 (optional) 218 Leonard Cir City Camden , State SC Section II (Dam Condition) General Condition Assessment (Select one of the following)	
Address 2 (optional) 218 Leonard Cir City Camden , State SC Section II (Dam Condition) General Condition Assessment (Select one of the following)	:
Address 2 (optional) 218 Leonard Cir City Camden , State SC Section II (Dam Condition) General Condition Assessment (Select one of the following) a) Satisfactory b) Fair c) Poor d)	:
Address 2 (optional) 218 Leonard Cir City Camden , State SC Section II (Dam Condition) General Condition Assessment (Select one of the following) a) Satisfactory b) Fair c) Poor d) II Section III (Dam Inspection Checklist) A. Dam Crest	:
Address 2 (optional) 218 Leonard Cir City Carriden , State SC Section II (Dam Condition) General Condition Assessment (Select one of the following) a) Satisfactory b) Fair c) Poor d) I Section III (Dam Inspection Checklist) A. Dam Crest i. Vegetation (grass, trees weeds)? Paved	:
Address 2 (optional) 218 Leonard Cir City Carriden , State SC Section II (Dam Condition) General Condition Assessment (Select one of the following) a) Satisfactory	:

i. V	egetation (grass, trees weeds)? Heavily vegetated with weeds, brush, and trees.
ii. /	Animal activity observed? None noted due to heavy vegetation.
iii.	Any obvious alterations or repairs made? None noted due to heavy vegetation.
iv. I	Frosion observed on upstream slope? None noted due to lack of freeboard and heavy vegetation.
v. S	ettlement or cracks visible in slope? None noted due to lack of freeboard and heavy vegetation.
	egetation (grass, trees weeds)? Heavily vegetated with weeds, brush, and trees.
	Animal activity observed? None noted due to heavy vegetation.
iii.	Any obvious alterations or repairs made? None noted due to heavy vegetation.
iv. I	rosion observed on down stream slope? None noted due to heavy vegetation.
	ettlement or cracks visible in slope? One large segment of the downstream slope has slumped, approximately at the midpoint dam/over pipe.
	oe drains flowing? N/A
). Pr	rate, and any turbidity or color within the flow: downstream water body. imary Spillway ny visible deterioration of structure? Spillway is rusted, undersized, and misaligned/leaning-clearly damaged.
). Pr i. A ii. Is	imary Spillway ny visible deterioration of structure? Spillway is rusted, undersized, and misaligned/leaning-clearly damaged. there an obvious need to repair or replace trash rack? Yes. Lake needs to be drained and primary spillway needs
i. A	imary Spillway ny visible deterioration of structure? Spillway is rusted, undersized, and misaligned/leaning-clearly damaged.
i. A ii. Is be ins iii. A	imary Spillway ny visible deterioration of structure? Spillway is rusted, undersized, and misaligned/leaning-clearly damaged. There an obvious need to repair or replace trash rack? Yes. Lake needs to be drained and primary splitway needs needed in detail.
ii. Is be ins iii. A	imary Spillway ny visible deterioration of structure? Spillway is rusted, undersized, and misaligned/leaning-clearly damaged. Yes. Lake needs to be drained and primary spillway needs bected in detail. Non noticeable problems with debris? Vegetation growing around spillway, trash rack is inadequate. Solid vegetation growing around spillway, trash rack is inadequate. Vegetation growing around spillway, trash rack is inadequate.
i. A ii. Is iii. Is iii. Is iii. /	imary Spillway ny visible deterioration of structure? Spillway is rusted, undersized, and misaligned/leaning-clearly damaged. There an obvious need to repair or replace trash rack? Yes. Lake needs to be drained and primary spiliway needs sected in detail. Nay noticeable problems with debris? Vegetation growing around spillway, trash rack is inadequate. Solitory vegetation growing around spillway, trash rack is inadequate.
i. A ii. Is iii. Is iii. Is iii. /	imary Spillway ny visible deterioration of structure? Spillway is rusted, undersized, and misaligned/leaning-clearly damaged. There an obvious need to repair or replace trash rack? Yes. Lake needs to be drained and primary spiliway needs spected in detail. Nany noticeable problems with debris? Vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway, trash rack is inadequate. Solition vegetation growing around spillway trash rack is inadequate. Solition vegetation growing around spillway trash rack is inadequate. Solition vegetation growing around spillway trash rack is inadequate.
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ii. Is pe ins iii. A	imary Spillway ny visible deterioration of structure? Spillway is rusted, undersized, and misaligned/leaning—clearly damaged. There an obvious need to repair or replace trash rack? Yes. Lake needs to be drained and primary spillway needs sected in detail. Vegetation growing around spillway, trash rack is inadequate. So valve or gate present? None visible. In the surface of the downstream water body. Sected in detail. None noted, pipe not visible. In the surface of the downstream water body. Sected in detail. None noted, outfall not visible. In the surface of the downstream water body. Sected in detail. None noted, pipe not visible. In the surface of the downstream water body. None noted, pipe not visible.
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vi. If applic	able, any visible leakage below concrete spillway? N/A
	ream/Hazard Class Issues
None noted.	ceable changes immediately downstream of the dam that affects the hazard classification?
None noted.	
	cy Action Plan (EAP) ncy Action Plan provided by owner? No.
ii. Does E/	AP contains emergency alert notification plan? If so, when was it last updated? Unknown.
iii. Does E	AP contain specific actions to take if the dam has failed or is near failure? Unknown.
General c	V (Conclusions) omments and recommendations:
General c	omments and recommendations: n extremely poor condition and requires immediate attention, as it is a direct threat to life and property
General c This dam is in downstream.	omments and recommendations: n extremely poor condition and requires immediate attention, as it is a direct threat to life and property The water level needs to be lowered immediately, and the structure evaluated by a qualified professional,
General c This dam is indownstream.	omments and recommendations: n extremely poor condition and requires immediate attention, as it is a direct threat to life and property The water level needs to be lowered immediately, and the structure evaluated by a qualified professional, not limited to: primary spillway standpipe and conduit through the structure, allowances for high water and/or
General c This dam is in downstream. including but emergency d	omments and recommendations: n extremely poor condition and requires immediate attention, as it is a direct threat to life and property The water level needs to be lowered immediately, and the structure evaluated by a qualified professional, not limited to: primary spillway standpipe and conduit through the structure, allowances for high water and/or lischarge (no emergency spillway), as well as the structure of the dam itself (slumping and subsidance).
General c This dam is in downstream. including but emergency d	omments and recommendations: n extremely poor condition and requires immediate attention, as it is a direct threat to life and property The water level needs to be lowered immediately, and the structure evaluated by a qualified professional, not limited to: primary spillway standpipe and conduit through the structure, allowances for high water and/or
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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.

SAVAGE ROYALL & SHEHEEN L.L.P. ATTORNEYS AND COUNSELORS AT LAW

EDWARD M. ROYALL ROBERT J. SHEHEEN MOULTRIE B. BURNS, JR. WILLIAM B. COX, JR. VINCENT A. SHEHEEN * STEPHEN R. SMOAK

MICHAEL D. WRIGHT

HENRY SAVAGE, JR. 1903 - 1990

* CERTIFIED MEDIATOR & ARBITRATOR

RECEIVED

FLORENCE EQC OFFICE

1111 CHURCH STREET CAMDEN, S.C. 29020

P.O. DRAWER 10 CAMDEN, S.C. 29021

TELEPHONE: (803) 432-4391 FACSIMILE: (803) 425-4816

October 21, 2014

Mr. Kevin Kim SCDHEC 145 E. Cheves Street Florence, SC 29506

Re:

Sunnyhill Northlake, Inc.

Camden, SC

Mr. Kim:

I am returning the notice of the dam inspection that you sent to me. I represented the Stockholders of Sunnyhill Northlake, Inc. in a lawsuit in 2000 but have had not contact with them since then. I am not the appropriate party for receipt of this notification.

Each of the lot holders who surround the lake are stockholders in the corporation.

Sincerely,

Robert J. Sheheen





Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment FLORENCE EQC OFFICE

October 16, 2014

Attn: Robert Sheheen F A Homeowners Association PO Box 10 Camden, SC 29020

RE: D-2523 Upper Sunny Hill Pond Dam Inspection Notification

Dear Mr. Sheheen:

The above referenced dam is due for a routine inspection under the provisions of the South Carolina Dams and Reservoirs Safety Act.

Florence office staff plan to conduct this inspection during the week of November 3, 2014. If you or a representative would like to accompany our staff, we invite you to contact us to schedule a specific day and time.

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. The enclosed Emergency Notification Plan has been developed to assist the dam owner in managing an emergency involving the dam structure.

To streamline the inspection and review process, we ask that the updated Emergency Notification Plan be completed and a copy be provided to the inspector. Also, if you have not already done so, please have any thick vegetation or brush cleared from the dam slopes so a thorough inspection may be conducted.

If you cannot have someone meet our staff for the inspection, please contact this office regarding any special issues regarding access to the dam (locked gates, private drives, etc.) Further, please submit the completed copy of the Emergency Notification Plan to this office no later than November 17, 2014. If you need additional copies of the Emergency Notification Plan form, please contact this office or you can download at www.scdhec.gov/library/D-2606.pdf.

Provisions of the South Carolina Dam Safety Act require the owner to notify the Department within 30 days of transferring title or control of the dam. The enclosed notification form must include the name and address of the new owner when control of the dam is transferred. Also the name and address of the present owner(s) must be provided to the department.

Sincerely,

Kevin Kim SCDHEC

Bureau of Environmental Health Services

Levin Kim

Florence Office

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Region 4

Serving Chesterfield, Clarendon, Darlington, Dillon, Florence, Kershaw, Lee, Marion, Marlboro and Sumter Counties Florence EQC Office • 145 E. Cheves Street • Florence, SC 29506 • Phone: (843) 661-4825 • Fax: (843) 661-4858 • www.scdhec.gov



C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

Certified Mail Return Receipt Requested

June 11, 2012

South Lake, Inc. 218 Leonard Cir. Camden, SC 29020

Subject:

Inspection and Repair Order for Sunnyhill Upper Dam, D 2523, Class 1, High

Hazard Dam, Kershaw County

Dear Sir or Madam:

The SC Dams and Reservoirs Safety Act confers upon the South Carolina Department of Health and Environmental Control (the Department/DHEC) the regulatory authority over dams within the state. Section 72-5 of the Dams and Reservoirs Safety Act Regulations provides the Department with the authority and responsibility to issue orders to dam owners mandating remedial measures as necessary to protect life or property from danger imposed by unsafe dams.

After a site visit conducted Thursday, May 31, 2012, it was confirmed that the dam is in need of substantial repairs. This situation violates the Dams and Reservoir Safety Act and was previously brought to your attention in a letter dated February 28, 2011 from DHEC signed by Steven Bradley. The previous letter states that you were given 90 days to submit plans for repairs to your dam, that timeline has expired. Additionally, you were informed that the water within the lake would have to be lowered to the invert elevation of the primary spillway if repairs were not made. The reservoir level should now be lowered to that level to ensure the safety of the downstream residents' lives and property.

Section 72-5.B outlines the process for issuing an Inspection and Repair Order. The Department requires that you, as an owner of a regulated dam which has been determined through preliminary inspections to be unsafe and a danger to property and life, make at your expense a detailed inspection of the dam and to submit plans and specifications to the Department in the form of a permit application to correct all problems found by the detailed inspection within sixty (60) days of the date of this letter. If this is not done, the matter will be turned over to the SC DHEC Bureau of Water Enforcement Division for possible fines and additional actions.

Detailed inspections shall be performed by professional engineers licensed in the State and be in sufficient detail so that appropriate plans and specifications correcting all deficiencies of the dam can be prepared by the engineer and submitted by the owner to the Department for approval. The following items for repair and/or the Department's information should be addressed during the inspection and repair plans:

1. The current spillway appears to be insufficient sized to pass the inflow design flood without overtopping. Provided hydrologic and hydraulic calculations assuring the dam meets the spillway design requirements of the above-mentioned regulations.

2. The barrel pipe servicing the primary spillway has been compromised by the intrusion of roots from woody vegetation. Submit plans and specifications for the repair or replacement of the corrugated steel primary spillway.

3. The stability of the dam's downstream slope appears to be unstable. Provide treatment or repair procedures for lining the back slope of the dam, as necessary, for erosion protection and stability during peak design flow conditions.

4. Develop and implement an acceptable operations and maintenance plan.

5. Establish an acceptable grass cover and remove the deleterious vegetation from the dam.

6. Provide an updated Emergency Action Plan.

The Notice of Appeal Procedure pursuant to S.C. Code Section 44-1-60 is enclosed. The information contained within the procedure is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.

After the Department approves the application package, you will have one year to construct the improvements to the dam before the permit expires. An engineers list was enclosed with the letter dated February 28, 2011 for your convenience, however, you are not limited to the engineers listed.

If you have further questions or comments, please feel free to contact me by phone at (803) 898-4212 or email pooleja@dhec.sc.gov (preferred).

Sincerely,

John A Poole, PE Engineering Associate Dams and Reservoirs Safety

Enclosure

cc. Harry Gaymon - Sumter EQC Field Office



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

10 January 2013

Fredericksburg Lake, Inc. 1212 South Fredericksburg Drive Lugoff, SC 29078

RE: D-2539 "Fredericksburg Lake Dam" PERIODIC RE-INSPECTION FOLLOWUP

To Whom it May Concern:

On 4 December 2012, EQC Region 4 personnel (Benjamin Gaston) conducted a routine re-inspection of the Fredericksburg Lake Dam. This inspection was to determine that the above-mentioned dam is in compliance with the Dams, Reservoirs Safety Act Regulations (R.72-105 through R.72-145)

This dam is in generally good condition.

The following are areas of concern that were noted during the inspection:

- 1) Upstream slope has been reinforced with rip-rap. Continue to monitor for other areas of slumping/sloughing and add additional rip-rap as needed to protect against wave action.
- 2) The small ornamental trees on the downstream slope need to be removed. Due to their extremely small size, this will not require a permit.
- 3) Continue to monitor the seepage along the northeastern toe of the dam. Any changes in color, flow and/or turbidity should immediately be reported to this office.
- 4) The small tree growing in the spillway grate will need to be removed, along with whatever accumulated material that has given it a roothold.
- 5) The emergency spillways will need to be monitored and kept free of debris that could inhibit the flow of water in an extreme precipitation event.

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

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

Provisions in the South Carolina Dams and Reservoirs Safety Act require the owner to notify the Department within 30 days after transferring title or control of the dam. Notification forms (D-2605) are available from this office on request.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Please note that as of July 25, 1997, it is the responsibility of the dam owner to notify any downstream property owners in the event of a failure or near-failure of the dam. A form has been previously provided with emergency response information. Please complete the form and submit a copy to our office no later than March 10th. The emergency contact for your area is Kershaw County Emergency Preparedness. As of the writing of this letter, the KCEP office can be contacted by dialing 911 in an emergency or 803-452-1522 during normal business hours.

Please do not hesitate to contact this office if you require further assistance or have any questions.

Sincerely,

Benjamin Gaston, EIT

Environmental Engineer Associate

EQC Region 4, Sumter

gastonbg@dhec.sc.gov

803.778.6548

cc: Mr. John Poole, SCDHEC Bureau of Water, Dams and Reservoir Safety



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 2539 & Hazard Class C1	B. Name of Dam: Fredericksburg Lake Dam
C. Inspection Date (12/04/20 12) & Time: 1030	D. Date of Last Inspection: (10 /27 /2010)
E. Location-County/City: Kershaw / Lugoff	F. EQC Regional Office: R4 Sumter
G. Inspector's Name; Benjamin Gaston, EIT	
H. Owner's Name: Fredericksburg Lake, Inc.	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K Done Ourselle on Content Describe and the	Other ()
K. Dam Owner's or Contact Person's mailing address:	
Address 1 1212 South Fredericksburg Drive	
Address 2 (optional)	
City Lugoff , State	SC Zip Code 29078
	2
*	IR.
Section II (Dam Condition)	
General Condition Assessment (Select one of the follo	owing):
a) Satisfactory b) Fair o) Poor	d) Unsatisfactory e) Not Rated
Section III (Dam Inspection Checklist)	
A. Dam Crest i. Vegetation (grass, trees weeds)? Good condition	
,	
ii. Animal activity observed? None noted.	
ii. Animal activity observed? None noted.	

	tream Slope
i. Ve	getation (grass, trees weeds)? Good condition.
ii. Ar	imal activity observed? None noted.
iii. A	ny obvious alterations or repairs made? None noted.
	Osion observed on upstream slope? Some riprap placed to protect against wave action. Continue to monitor upstream slump
	tlement or cracks visible in slope? None noted.
i. Ve	rn Stream Slope getation (grass, trees weeds)? Grass in good condition. Several small ornamental trees have been planted on the slope.
	imal activity observed? Some minor game pathing, monitor for erosion.
iii. Aı	ny obvious alterations or repairs made? None noted.
iv. Er	Osion observed on down stream slope? Minor bare spots. Monitor and attempt to get some form of vegetative cover
	tlement or cracks visible in slope? None noted.
vi. To	e drains flowing? N/A
	are and any tangents of color string in the index. Indicious baseinspections, iso apparair incident in how of fill bill all
). Prin	numerous past inspections. No apparent increase in flow or turbitity at nary Spillway visible deterioration of structure? None noted.
) . Pri n i. Any	nary Spillway
i. Any ii. Is t	visible deterioration of structure? None noted.
i. Any ii. Is t	nary Spillway visible deterioration of structure? None noted. None noted. None noted.
i. Any ii. Is t iii. An iii. St	nary Spillway visible deterioration of structure? None noted. None noted. None noted. Y noticeable problems with debris? Small tree growing in spillway. Needs to removed along with material providing it
i. Any ii. Is t iii. An a footing iv. Is E. Out	nary Spillway visible deterioration of structure? None noted. None noted. None noted. Yes—single valve handle and stem. Operation unknown.
i. Any ii. Is t iii. An a footing iv. Is E. Out i. Any ii. De	nary Spillway visible deterioration of structure? None noted. None noted. None noted. y noticeable problems with debris? Small tree growing in spillway. Needs to removed along with material providing it valve or gate present? Yes—single valve handle and stem. Operation unknown. Ilet Plpe water visibly flowing or leaking outside of the discharge pipe? None noted.
ii. Is t iii. Any iii. Is t iii. An a footing iv. Is E. Out i. Any iii. De iii. Vis i. Aux i. Noti	visible deterioration of structure? None noted. None noted. None noted. None noted. Yes—single valve handle and stem. Operation unknown. None noted. None noted. None noted. Yes—single valve handle and stem. Operation unknown. None noted. Scribe any deflection or damage observed to the pipe: None noted. None noted. None noted. None noted. None noted.
ii. Is t iii. An iiii. An iiii. An iiii. An iiii. An iii. An iii. De iii. Vis iii. Vis iii. Noti irecipitati	visible deterioration of structure? None noted. None noted. None noted. None noted. Y noticeable problems with debris? Small tree growing in spillway. Needs to removed along with material providing it valve or gate present? Yes—single valve handle and stem. Operation unknown. Set Pipe Water visibly flowing or leaking outside of the discharge pipe? None noted. Scribe any deflection or damage observed to the pipe: None noted. Appears satisfactory. Monitor for erosion and/or displacement of reinforcing stone.
ii. Is t iii. Is t iii. Is t iii. An a footing iv. Is E. Out i. Any ii. De iii. Vis i. Noti brecipitati ii. Ani	visible deterioration of structure? None noted. None noted. None noted. None noted. Yes—single valve handle and stem. Operation unknown. None noted. None noted. Yes—single valve handle and stem. Operation unknown. None noted. Scribe any deflection or damage observed to the pipe: None noted. None noted. None noted. None noted. None noted. None noted.

vi. If applicable, any visib	lo lookago bolow coper	ato enillway2		
vi. ii applicable, ally visib	ie leakage below concre	ste spillway!	N/A	
1. Downstream/Hazard C i. Any noticeable changes		am of the dam t	nat affects the hazar	d classification?
None noted.				<u> </u>
. Emergency Action Plan i. Emergency Action Plan	n (EAP) n provided by owner?	To be provided a	t a later date.	=
ii. Does EAP contains en	nergency alert notification	on plan? If so, w	hen was it last upda	ted? N/A
iii. Does EAP contain spe	ecific actions to take if the	ne dam has faile	d or is near failure?	N/A
General comments and		9	5	
Section IV (Conclusion General comments and Dam in good condition.		Si .	5	
General comments and	recommendations:	eeded.		
General comments and Dam in good condition. Continue to monitor upstream	recommendations:	10		
General comments and Dam in good condition.	recommendations:	10		
General comments and Dam in good condition. Continue to monitor upstream	recommendations: slope and add rip-rap as need from downstream slope.		which could indicate a	n accelerating problem
General comments and Dam in good condition. Continue to monitor upstream Remove small omamental tre	recommendations: slope and add rip-rap as n es from downstream slope. age on the NE toe for volum		which could indicate a	n accelerating problem

Preliminary Dam Inspection Disclaimer:

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