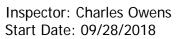
Dams Preliminary Inspection Form



Start Date: 09/28/2018 Completed Date: 10/01/2018



Inspection Informat	tion	
1. Date of Inspection		09/27/2018
2. Inspectors Present		Chuck Owens
3. Other Persons Attendi	ing Inspection	
Name	Phone	Owner/Engineer/Other
4. Is this a follow-up insp	pection?	Yes V No NA
Observation/Instru	mentation	
1. Estimate the current le	evel of the water in the reservoir:	Breached
of the dam was not acce	t the midway section of the dam. essible due to the breach. en looking downstream.	Pond is holding some water. Right side Photo Taken: 9/27/2018 10:47:44 AM GPS Latitude: 34.6763
		GPS Longitude: -79.756775 GPS Altitude: 48.1004066312168 meters GPS Azimuth: 232.915603532875 degrees
2. Describe the current v	veather & conditions:	Partly Cloudy, 87 degrees
3. Recent rainfall quantit	y:	None
4a. Are Piezometers or C	Observation Wells present?	Yes V No
4b. (If Present:) Condition	on of Piezometers/Observation We	lls
5a. Is a Staff Gauge or R	Pecorder present?	Yes V No
5b. (If Present:) Condition	on of Staff Gauge or Recorder	
6a. Are Measurement We	eirs Present?	Yes V No
6b. (If Present:) Condition	on of Weirs:	
7a. Number of Spillways	Present	

Dams Preliminary Inspection Form

Inspector: Charles Owens

Start Date: 09/28/2018 Completed Date: 10/01/2018



Observation/Instrumentation

7b. Type of Spillways Present

Concrete Chute

Dam sustained a breach at the middle of the dam. Concrete auxiliary spillway is located at the left abutment of the dam.

Right side of the dam was not accessible due to the breach.



Photo Taken: 9/27/2018 10:50:27 AM GPS Latitude: 34.6755972222222 GPS Longitude: -79.7580722222222 GPS Altitude: 44.5010719158059 meters GPS Azimuth: 246.828445424476 degrees

8. Other:

9. Additional Comments (Refer to item number if applicable)

Embankment: Crest

1. Grass Cover

Is this section applicable for this dam?

Yes No

Action Required

Little to no grass cover.



Photo Taken: 9/27/2018 10:49:52 AM GPS Latitude: 34.6756333333333 GPS Longitude: -79.757827777778 GPS Altitude: 43.6550636353747 meters GPS Azimuth: 227.99118046133 degrees

2. Deleterious Vegetation

No Deficiency

Dams Preliminary Inspection Form

Inspector: Charles Owens



Embankment: Crest

3. Trees Action Required



Photo Taken: 9/27/2018 10:52:56 AM GPS Latitude: 34.6757611111111 GPS Longitude: -79.757544444444 GPS Altitude: 40.2793006691129 meters GPS Azimuth: 52.9917602996255 degrees

4. Animal Activity No Deficiency

Dams Preliminary Inspection Form

Inspector: Charles Owens



Embankment: Crest

5. Surface Cracking

Action Required

Cracking and settlement was observed along the crest approximately 50 feet to the left of the breach



Photo Taken: 9/27/2018 10:49:52 AM
GPS Latitude: 34.6756333333333
GPS Longitude: -79.757827777778
GPS Altitude: 43.6550636353747 meters
GPS Azimuth: 227.99118046133 degrees



Photo Taken: 9/27/2018 10:52:09 AM GPS Latitude: 34.6756222222222 GPS Longitude: -79.7579583333333 GPS Altitude: 40.0407447973713 meters GPS Azimuth: 61.1418762178714 degrees

6. Horizontal Alignment

7. Settlement Action Required

See item 6

8. Sinkhole No Deficiency

Dams Preliminary Inspection Form

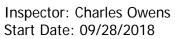
Inspector: Charles Owens

Embankment: Crest



9. Erosion **Action Required** Areas of the dams crest have eroded due to overtopping of the dam. Photo Taken: 9/27/2018 10:49:55 AM GPS Latitude: 34.6756333333333 GPS Longitude: -79.7578361111111 GPS Altitude: 42.4382972624337 meters GPS Azimuth: 72.3256530910271 degrees Yes V No 10a. Are Alterations/Repairs Present? 10b. (If Present:) Alterations/Repairs Condition 11. Other: 12. Embankment: Crest Condition **Needs Permitted** Repair(s) Violation Determined: 9/28/2018 DAMMAINTREP 13. Additional Comments (Refer to item number if applicable) Concrete/Masonry Dams: Crest Yes V No Is this section applicable for this dam? 1. Surface Conditions 2. Horizontal Alignment 3. Vertical Alignment 4. Condition of Joints 5. Unusual Movement Yes No 6a. Are Alterations/Repairs Present? 6b. (If Present:) Alterations/Repairs Condition 7. Other:

Dams Preliminary Inspection Form



Start Date: 09/28/2018 Completed Date: 10/01/2018



8. Concrete/Masonry Dam Crest Condition	
9. Additional Comments (Refer to item number if applica	able)
mbankment: Upstream Slope	
Is this section applicable for this dam?	✓ Yes No
1. Grass Cover	Monitor
2. Deleterious Vegetation	Monitor
3. Trees	Action Required
	Photo Taken: 9/27/2018 10:48:56 AM GPS Latitude: 34.6758722222222 GPS Longitude: -79.7573694444445 GPS Altitude: 45.1541786192389 meters GPS Azimuth: 264.074569789675 degrees
4. Animal Activity	Monitor
5. Surface Cracking	
6. Subsidence, Sinkhole	
7. Slide, Slough, Scarp	
8. Groins	
9. Erosion	Action Required
10a. Slope Protection/Armoring Present?	Yes No
10b. (If Present:) Slope Protection/Armoring	Investigate
11a. Alterations/Repairs Present?	Yes No
11b. (If Present:) Alterations/Repairs Condition	
12. Other:	

Dams Preliminary Inspection Form

Inspector: Charles Owens Start Date: 09/28/2018 Completed Date: 10/01/2018



Embankment: Upstream Slope	
13. Embankment: Upstream Slope Condition	Needs Maintenance, Needs Permitted Repair(s)
Violation Determined: 10/1/2018 DAMMAINTREP	
14. Additional Comments (Refer to item nu	ımber if applicable)
Concrete/Masonry Dams: Upstre	am Face
Is this section applicable for this dam?	☐ Yes ✓ No
1. Surface Conditions	
2. Condition of Joints	
3. Unusual Movement	
4. Abutments	
5a. Alterations/Repairs Present?	Yes No
5b. (If Present:) Alterations/Repairs Condi	tion
6. Other:	
7. Concrete/Masonry Dams: Upstream Fac	e Condition
8. Additional Comments (Refer to item nur	mber if applicable)
Embankment: Downstream Slope	
Is this section applicable for this dam?	✓ Yes ☐ No
1. Grass Cover	Action Required
2. Deleterious Vegetation	Action Required

Dams Preliminary Inspection Form

Inspector: Charles Owens



Embankment: Downstream Slope

3. Trees Action Required



Photo Taken: 9/27/2018 10:49:52 AM
GPS Latitude: 34.6756333333333
GPS Longitude: -79.757827777778
GPS Altitude: 43.6550636353747 meters
GPS Azimuth: 227.99118046133 degrees

4. Animal Activity

Could not investigate due to thick vegetation.

- 5. Surface Cracking
- 6. Subsidence, Sinkhole
- 7. Slide, Slough, Scarp

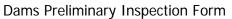
Action Required

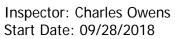
Eroded areas and scarps were observed in several places on the downstream slope due to overtopping of the dam



Photo Taken: 9/27/2018 10:49:14 AM
GPS Latitude: 34.6757916666667
GPS Longitude: -79.7575222222222
GPS Altitude: 45.3336219336219 meters
GPS Azimuth: 209.190185546875 degrees

8. Groins

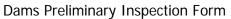




Start Date: 09/28/2018 Completed Date: 10/01/2018



Embankment: Downstream Slope	
9. Erosion	Action Required
See item 7	
10a. Slope Protection/Armoring Present?	Yes Vo
10b. (If Present:) Slope Protection Condition	
11. Wet Areas	
Some standing water was still present after the hurricane.	
12a. Seepage	Yes Vo
12b. (If Present): Seepage Flow	
13a. Drainage System Present?	Yes Vo
13b. (If Present:) Drainage System Condition	
14a. Alterations/Repairs Present?	Yes Vo
14b. (If Present:) Alterations/Repairs Condition	
15. Other:	
16. Embankment: Downstream Slope Condition	Needs Permitted Repair(s)
Violation Determined: 9/28/2018 DAMMAINTREP	
17. Additional Comments (Refer to item number if applicable)	
Concrete/Masonry Dams: Downstream Face	
Is this section applicable for this dam?	Yes Vo
1. Surface Conditions	
2. Condition of Joints	
3. Unusual Movement	
4. Drains	
5. Leakage	
6. Abutments	
7a. Alterations/Repairs Present?	Yes No
7b. (If Present:) Alterations/Repairs Condition	
8. Other:	



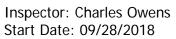


Inspector: Charles Owens Start Date: 09/28/2018 Completed Date: 10/01/2018



Concrete/Masonry Dams: Downstream Face		
9. Concrete/Masonry Dam: Downstream Face Condition		
10. Additional Comments (Refer to item number if applicable)		
Downstream Area		
Is this section applicable for this dam?	Yes No	
Is Downstream Area clear?	Yes V No	
1. Trees	Monitor	
2. Deleterious Vegetation	Monitor	
3. Wet Areas	Monitor	
4a. Seepage	Yes No	✓ NA
4b. (If Present): Seepage Flow		
5a. Boils	Yes No	✓ NA
5b. (If Present): Boil Flow		
6a. Alterations/Repairs Present	Yes V No	☐ NA
6b. (If Present:) Alterations/Repairs Condition		
7. Other:		
8. Downstream Area Condition		
9. Additional Comments (Refer to item number if applicable)		
Spillways: Erodible Channel		
Is this section applicable for this dam?	Yes Vo	
1. Location		
2. Grass Cover		
3. Deleterious Vegetation		
4. Trees		
5. Animal Activity		
6. Subsidence, Sinkhole		
7. Slide, Slough, Scarp		
8. Erosion		
9. Debris		_

Dams Preliminary Inspection Form



Start Date: 09/28/2018 Completed Date: 10/01/2018



pillways: Erodible Channel	
10. Flowing?	Yes No
11a. Alterations/Repairs Present	Yes No No
11b. (If Present:) Alterations/Repairs Condition	
12. Other:	
13. Spillway: Erodible Channel Condition	
14. Additional Comments (Refer to item number if applica	ble)
oillways: Non-Erodible Channel	
Is this section applicable for this dam?	✓ Yes No
1. Location	
2. Approach Area	Action Required
Approach to the control section of the auxiliary spillway have prior to Hurricane Florence	Photo Taken: 9/27/2018 10:48:03 AM GPS Latitude: 34.6762 GPS Longitude: -79.7569194444444 GPS Altitude: 47.7667274939173 meters GPS Azimuth: 10.4799194259096 degrees
3. Weir/Control	
4. Sidewalls	

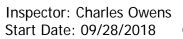
Dams Preliminary Inspection Form

Inspector: Charles Owens



Spillways: Non-Erodible Channel 5. Channel Floor **Action Required** Cracks were observed in the concrete channel Photo Taken: 9/27/2018 10:47:40 AM GPS Latitude: 34.6763083333333 GPS Longitude: -79.7567666666667 GPS Altitude: 51.1519813519814 meters GPS Azimuth: 21.6864929381341 degrees 6. Condition of Joints Monitor 7. Surface Condition Monitor 8. Unusual Movement 9. Discharge Channel Monitor Erosion was present due to heavy flow through the channel 10. Debris No Deficiency Yes V No 11. Flowing? NA 12a. Boils Yes No 🗹 NA 12b. (If Present): Boils Yes V No NA 13a. Alterations/Repairs Present 13b. (If Present:) Alterations/Repairs Condition 14. Other: 15. Spillway: Non-Erodible Channel Condition Needs Maintenance, **Needs Permitted** Repair(s) Violation Determined: 10/1/2018 **DAMMAINTREP** 16. Additional Comments (Refer to item number if applicable)

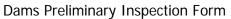
Dams Preliminary Inspection Form



Start Date: 09/28/2018 Completed Date: 10/01/2018



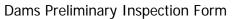
Spillways: Inlet Structure	
Is this section applicable for this dam?	Yes V No
1. Location	
2a. Intake Structure	Action Required
	Photo Taken: 9/27/2018 10:51:29 AM GPS Latitude: 34.6756138888889 GPS Longitude: -79.7580722222222 GPS Altitude: 45.3622474747475 meters GPS Azimuth: 259.771667662881 degrees
2b. Intake Structure Types	Other (Explain In Comments)
See item 2	
3. Trashrack	Not Present
4a. Low-Level Valve Present?	Yes V No NA
4b. (If Present:) Low-Level Valve Condition	
5. Debris	
6a. Repairs/Alterations Present	Yes V No NA
6b. (If Present:) Alterations/Repairs Condition	
7. Other:	
8. Spillway: Inlet Structure Condition	Needs Permitted Repair(s)
Violation Determined: 9/28/2018 DAMMAINTREP	
9. Additional Comments (Refer to item number if a	oplicable)
Spillways: Outlet Works	
Is this section applicable for this dam?	Yes V No





Inspector: Charles Owens Start Date: 09/28/2018 Completed Date: 10/01/2018

Spillways: Outlet Works	
1. Location	
2a. Outlet Structure	
2b. Outlet Structure Type	
3. Outlet Pipe	
4. Primary Closure/Control	
5. Secondary Closure/Control (If Applicable)	
6. Unusual Movement	
7a. Seepage	Yes No NA
7b. (If Present): Seepage	
8. Stilling Basin	
9. Normal Flow Quantity	
10. Low-Level Flow Quantity	
11a. Alterations/Repairs Present	Yes No NA
11b. (If Present:) Alterations/Repairs	
12. Other:	
13. Outlet Works Condition	
14. Additional Comments (Refer to item number if applicable)	
Emergency Action Plan	
Is this section applicable for this dam?	Yes No
1. Date of last update of emergency plan:	
See item 5	
2a. EAP provided by owner?	Yes V No NA
2b. (If EAP was not provided, was a copy of the EAP form left with the owner?)	Yes No NA
3. Does EAP contain emergency alert plan?	Yes No NA
4. Does EAP contain specific actions to take if the dam has failed or is failing?	Yes No NA
5. Additional Comments (Refer to item number if applicable) EAP was provided by Department staff on 12/11/2017 to the owner.	





Inspector: Charles Owens Start Date: 09/28/2018 Completed Date: 10/01/2018



Downstream Hazard Check		
1. Satellite Imagery	Yes No	NA
Photo Taker 125-11 McLaurus Millperd Dan	n: 9/28/2018 12:34:41 PM	
2. Inundation Map	Yes No	■ NA
3. Structures/Developments	Yes V No	■ NA
4. Roads/Railways	Yes No	■ NA
Brick Yard Road is below the dam		
5. Utilities	Yes 🗹 No	NA
6. Consider For Reclass?	Yes 🗹 No	NA
Currently a Significant Hazard, Class 2 dam		
7. Additional Comments (Refer to item number if applicable)		
Inspection Summary		
1. Overall Condition (*Per National Inventory of Dams Definition)	Not Rated	
Not rated due to the dam is breached.		

Dams Preliminary Inspection Form

Inspector: Charles Owens



Inspection Summary

-----NID Definitions-----

(SATISFACTORY) No existing or potential dam safety deficiencies are recognized.

Acceptable performance is expected under all loading conditions in accordance with

state engineer's rules and regulations for dams or tolerable risk guidelines.

(FAIR) No existing dam safety deficiencies are recognized for normal loading

conditions. Rare or extreme hydrologic and/or seismic events may result in a dam

safety deficiency. Risk may be in the range to take further action.

(POOR) A dam safety deficiency is recognized for loading conditions, which may

realistically occur. Remedial action is necessary. A POOR condition is used when

uncertainties exist as to critical analysis parameters, which identify a potential dam

safety deficiency. Further investigations and studies are necessary.

(UNSATISFACTORY) A dam safety deficiency is recognized that requires immediate

or emergency remedial action for problem resolution.

(NOT RATED) This should only be used if it is not possible to assess 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.

3. Final Comments

Dam was breached as a result of Hurricane Florence.

Engage an engineer to develop a repair plan or a plan to decommission the dam if repairs are not going to be conducted.

Dams Preliminary Inspection Form

Inspector: Charles Owens



Inspection Summary

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.

MCLAURINS MILLPOND DAM (D3441) Violation List



Form	Determined	Description	Sec. #
Dams Preliminary Inspection Form	9/28/2018	Reference: DAMMAINTREP	
Dams Preliminary Inspection Form	10/1/2018	Reference: DAMMAINTREP	
Dams Preliminary Inspection Form	9/28/2018	Reference: DAMMAINTREP	
Dams Preliminary Inspection Form	10/1/2018	Reference: DAMMAINTREP	
Dams Preliminary Inspection Form	9/28/2018	Reference: DAMMAINTREP	