

DAM SAFETY INSPECTION REPORT

NAME CAPE MEAR P.L.T. 1956 ASH POND		COUNTY CHATH	NO. 075	INSPECTED BY JLH/AR	DATE 2-21-14
OWNER DUKE PROGRESS		ADDRESS FILE			PHONE FILE
TYPE DAM <input type="checkbox"/> Concrete gravity <input type="checkbox"/> Concrete arch <input type="checkbox"/> Other <input checked="" type="checkbox"/> Embankment <input type="checkbox"/> Concrete buttress <input type="checkbox"/> Stone masonry		TYPE INSPECTION <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Initial <input type="checkbox"/> Followup <input type="checkbox"/> Other		SITE CONDITIONS <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Dry <input type="checkbox"/> Snowcover <input type="checkbox"/> Other	
HAZARD DESCRIPTION RIVER NEAR DS TOE / COMPOSITION OF MATERIAL				HAZARD CLASS <input type="checkbox"/> Low (A) <input checked="" type="checkbox"/> Intermediate (B) <input checked="" type="checkbox"/> High (C)	
REMARKS WET DUE TO RECENT WEATHER CONDITIONS INCLUDING RAIN TODAY. POND IS INACTIVE & APPEARS STABLE W/NO APPARENT CHANGES SINCE PREVIOUS INSPECTION. CONTINUE MONITORING/ENG.			ACTION <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Minor repair <input checked="" type="checkbox"/> Engineering	RECOMMENDATIONS <input checked="" type="checkbox"/> Inspection letter <input type="checkbox"/> Deficiency letter <input type="checkbox"/> RE notice <input type="checkbox"/> Engineering study <input type="checkbox"/> Inspection by RE <input type="checkbox"/> Inspection by DSE <input type="checkbox"/> Dam safety order <input type="checkbox"/> Enforcement <input checked="" type="checkbox"/> Periodic reinspection <input checked="" type="checkbox"/> Other reinspection AS NEEDED	
AREA	PROBLEMS	DECOMPOSITION	COMMENTS		
UPSTREAM SLOPE / FACE	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 11. Displaced rip rap <input type="checkbox"/> 2. Tree <input type="checkbox"/> 12. Cracks <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 13. Undermining <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 14. Holes <input type="checkbox"/> 5. Wave erosion <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 7. Slides <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 19. Other <input type="checkbox"/> 10. Sparse rip rap	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other	DECOMM.		
TOP OF DAM	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 11. Cracks <input type="checkbox"/> 2. Tree <input type="checkbox"/> 12. Spalling <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 13. Deteriorated joints <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 14. Displaced joints <input type="checkbox"/> 5. Pits <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 16. Other <input type="checkbox"/> 7. Depressions <input type="checkbox"/> 8. Unequal <input type="checkbox"/> 9. Misalignment <input type="checkbox"/> 10. Has overtopped	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other			
DOWNSTREAM SLOPE / FACE	<input type="checkbox"/> 1. None <input type="checkbox"/> 11. Seepage <input checked="" type="checkbox"/> 2. Trees <input type="checkbox"/> 12. Boils <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 13. Cracks <input checked="" type="checkbox"/> 4. Burrows <input type="checkbox"/> 14. Holes <input checked="" type="checkbox"/> 5. Erosion <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 16. Displaced joints <input checked="" type="checkbox"/> 7. Slides <input type="checkbox"/> 17. Deteriorated joints <input checked="" type="checkbox"/> 8. Depressions <input type="checkbox"/> 18. Exposed reinforcement <input checked="" type="checkbox"/> 9. Bulges <input type="checkbox"/> 19. Other <input type="checkbox"/> 10. Wetness	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other	2 - NO PARTICULAR CHANGES NOTED 4, 5, 7, 8 & 9 - SITE IS NOT ACTIVE & ALL OBSERVED FEATURES ARE LONG-STANDING AND DO NOT APPEAR TO BE PROBLEMATIC. CONTINUE MONITORING FOR ANY CHANGE, AND ESPECIALLY ANY ACTIVE EROSION ASSOC. W/ DOWNED TREES AND OLD EROSION FEATURES.		
TOE CONTACT	<input type="checkbox"/> 1. None <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 2. Tree <input type="checkbox"/> 12. Boils <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 14. Holes <input checked="" type="checkbox"/> 5. Erosion <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 7. Slides <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 19. Undermining <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other	5 - NO APPARENT CHANGES IN OLD EROSION FEATURES. SEE DS SLOPE COMMENTS ABOVE.		

AREA		PROBLEMS	COMMENTS
ADJUTMENT CONTACTS	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Boils <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Undermining <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other	
	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No trashguard <input type="checkbox"/> 3. Obstructed <input type="checkbox"/> 4. Plugged <input type="checkbox"/> 5. Rusted <input type="checkbox"/> 6. Damaged <input type="checkbox"/> 7. Gates leaking <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermined <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Erosion <input type="checkbox"/> 15. Holes <input type="checkbox"/> 16. Conduit collapsed <input type="checkbox"/> 17. Spalling <input type="checkbox"/> 18. Outlet undercutting <input type="checkbox"/> 19. Misalignment <input checked="" type="checkbox"/> 20. Other	TYPE/SIZE: CONCRETE RISER / OUTLET CONDUIT 20 - STRUCTURES ARE DRY, BUT OUTLET WAS NOT VISIBLE DUE TO VEGETATIVE / LEAF LITTER COVER.	
EMERGENCY SPILLWAY	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. No ES <input checked="" type="checkbox"/> 3. Same as PS <input type="checkbox"/> 4. Obstructed <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Displaced rip rap <input type="checkbox"/> 7. Spare rip rap <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermining <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Spalling <input type="checkbox"/> 17. Outlet erosion <input type="checkbox"/> 18. Misalignment <input type="checkbox"/> 19. Inadequate capacity <input type="checkbox"/> 20. Other	TYPE/SIZE: SKIE ABOVE	
DRAINS / OTHER OUTLETS	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. No bottom drain <input type="checkbox"/> 3. Bottom drain inoperable <input type="checkbox"/> 4. Subsurface drain dry <input type="checkbox"/> 5. Subsurface drain muddy flow <input type="checkbox"/> 6. Subsurface drain obstructed <input type="checkbox"/> 7. No animal guard <input type="checkbox"/> 8. Other	TYPE:	

SKETCHES/COMMENTS

- NO APPARENT NOTEWORTHY CHANGES FROM PREVIOUS INSP.; NO SIGNS OF ANY STRUCTURAL DISTRESS.

- SITE IS INACTIVE

- NOTED 2 SMALL STORM DRAIN PIPES JUST BELOW CREST ELEV. @ THE SOUTH END NEAR OLD PLANT. SATISFACTORY CONDITION - DISCUSSED POSSIBLE TREATMENT w/ DECOMM. PROCESS (GROUT/REMOVE)

- DISCUSSED CONDITIONS & POTENTIAL PERMIT NEEDS REGARDING OLD PIPES IN DECOMM. PROCESS.

- MET w/ JOHN TOEPFER & LARRY BAXLEY PRIMARILY.

DAM SAFETY INSPECTION REPORT

NAME CARLE FEAR PLT, #163 ASH POND	COUNTY CHATH	NO. 076	INSPECTED BY JLH/AR	DATE 2-21-14
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OWNER DUKE PROGRESS	ADDRESS FILE	PHONE FILE
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TYPE DAM <input checked="" type="checkbox"/> Embankment <input type="checkbox"/> Concrete gravity <input type="checkbox"/> Concrete arch <input type="checkbox"/> Other <input type="checkbox"/> Concrete buttress <input type="checkbox"/> Stone masonry	TYPE INSPECTION <input type="checkbox"/> Initial <input type="checkbox"/> Followup <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Other	SITE CONDITIONS <input type="checkbox"/> Dry <input type="checkbox"/> Snowcover <input type="checkbox"/> Other <input checked="" type="checkbox"/> Wet
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HAZARD DESCRIPTION RIVER NEARBY / MATERIAL COMPOSITION	HAZARD CLASS <input type="checkbox"/> Low (A) <input type="checkbox"/> Intermediate (B) <input checked="" type="checkbox"/> High (C)
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REMARKS — OVERALL CONDITION STILL APPEARS STABLE W/ OLDER SLOPE COND. SUCCESSFULLY STABILIZED. ONE CONC. STEP NOTED W/ NO DISTRESS. CONTINUE TO MONITOR.	ACTION <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Minor repair <input checked="" type="checkbox"/> Engineering	RECOMMENDATIONS <input checked="" type="checkbox"/> Inspection letter <input type="checkbox"/> Deficiency letter <input type="checkbox"/> RE notice <input type="checkbox"/> Engineering study <input type="checkbox"/> Inspection by RE <input type="checkbox"/> Inspection by DSE <input type="checkbox"/> Dam safety order <input type="checkbox"/> Enforcement <input checked="" type="checkbox"/> Periodic reinspection <input checked="" type="checkbox"/> Other reinspection AS NEEDED
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AREA	PROBLEMS	COMMENTS
UPSTREAM SLOPE / FACE	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Tree <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Wave erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Sparse rip rap <input type="checkbox"/> 11. Displaced rip rap <input type="checkbox"/> 12. Cracks <input type="checkbox"/> 13. Undermining <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other RECONTING DECOMM.
TOP OF DAM	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Pits <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Depressions <input type="checkbox"/> 8. Unevel <input type="checkbox"/> 9. Misalignment <input type="checkbox"/> 10. Has overtopped <input type="checkbox"/> 11. Cracks <input type="checkbox"/> 12. Spalling <input type="checkbox"/> 13. Deteriorated joints <input type="checkbox"/> 14. Displaced joints <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input checked="" type="checkbox"/> Other ACCESS RD. 1 - NO APPARENT PROBLEMS. SOME MINOR RUTTING IN ROADWAY WAS NOTED.
DOWNSTREAM SLOPE / FACE	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. Tree <input type="checkbox"/> 3. High bushes <input checked="" type="checkbox"/> 4. Burrows <input checked="" type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input checked="" type="checkbox"/> 7. Slides <input checked="" type="checkbox"/> 8. Depressions <input checked="" type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Boils <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other 2, 4, 5, 7, 8 & 9 - NO NOTEWORTHY CHANGES NOTED. DOWNED TREES & SLOPE IRREGULARITIES ARE LONG-STANDING WITH NO STRUCTURAL DISTRESS INDICATED.
TOE CONTACT	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input checked="" type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input checked="" type="checkbox"/> 10. Wetness <input checked="" type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Boils <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Undermining <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other 5 - MINOR W/ RESPECT TO MONITORING WELL ACCESS; MOST FEATURES ARE OLD AND APPEAR STABLE AT THIS TIME. 10-11 - CONCENTRATED SEEP OBSERVED ABOUT 400' US ASNG RIVER FROM 1ST SET OF MONITORING WELLS GOING IN FROM NORTHEAST. FLOW IS CLEAR AND SURROUNDING SOILS APPEAR FIRM WHEN PROBED. IRON OXIDE PRECIP. NOTED; SEVERAL GPM FLOW NOTED. NO DISTRESS OBSERVED @ EMBANKMENT, AND AREA APPEARS IMPACTED BY ACCESS RD. / PATH

AREA		PROBLEMS	COMMENTS
ABUTMENT CONTACTS	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Boils <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Undermining <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. No trashguard <input type="checkbox"/> 3. Obstructed <input type="checkbox"/> 4. Plugged <input type="checkbox"/> 5. Rusted <input type="checkbox"/> 6. Damaged <input type="checkbox"/> 7. Gates leaking <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermined <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Erosion <input type="checkbox"/> 15. Holes <input type="checkbox"/> 16. Conduit collapsed <input type="checkbox"/> 17. Spalling <input type="checkbox"/> 18. Outlet undercutting <input type="checkbox"/> 19. Misalignment <input type="checkbox"/> 20. Other	TYPE/SIZE: SURFACE DRAINS TO 1970 POND VIA BREACHED SEPARATION DIKE	
EMERGENCY SPILLWAY	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No ES <input checked="" type="checkbox"/> 3. Same as PS <input type="checkbox"/> 4. Obstructed <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Displaced rip rap <input type="checkbox"/> 7. Sparse rip rap <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermining <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Spalling <input type="checkbox"/> 17. Outlet erosion <input type="checkbox"/> 18. Misalignment <input type="checkbox"/> 19. Inadequate capacity <input type="checkbox"/> 20. Other	TYPE/SIZE:	
DRAINS / OTHER OUTLETS	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. No bottom drain <input type="checkbox"/> 3. Bottom drain inoperable <input type="checkbox"/> 4. Subsurface drain dry <input type="checkbox"/> 5. Subsurface drain muddy flow <input type="checkbox"/> 6. Subsurface drain obstructed <input type="checkbox"/> 7. No animal guard <input type="checkbox"/> 8. Other	TYPE:	

SKETCHES/COMMENTS

— POND IS INACTIVE

— DISCUSSED MONITORING w/ COMPANY OFFICIALS @ SITE, WITH PARTICULAR ATTENTION GIVEN TO SEEP OBSERVED. IT WAS INDICATED THAT CONSULTANT (MACTECH) IS AWARE OF SEEP AND IT IS INCLUDED IN CO.'S REGULAR MONITORING.

DAM SAFETY INSPECTION REPORT

NAME CAPE FEAR PLT. 1970 ASH POND	COUNTY CHESAPEAKE	NO. 077	INSPECTED BY JTH/AR	DATE 2-21-14
OWNER DUKE PROGRESS	ADDRESS FILE			PHONE FILE

TYPE DAM <input checked="" type="checkbox"/> Embankment <input type="checkbox"/> Concrete gravity <input type="checkbox"/> Concrete arch <input type="checkbox"/> Other <input type="checkbox"/> Concrete buttress <input type="checkbox"/> Stone masonry	TYPE INSPECTION <input type="checkbox"/> Initial <input type="checkbox"/> Followup <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Other	SITE CONDITIONS <input type="checkbox"/> Dry <input type="checkbox"/> Snowcover <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Other
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HAZARD DESCRIPTION RIVER NEARBY / MATERIAL COMPOSITION	HAZARD CLASS <input type="checkbox"/> Low (A) <input type="checkbox"/> Intermediate (B) <input checked="" type="checkbox"/> High (C)
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REMARKS - CONTINUES TO APPEAR STABLE. CONTINUE MONITORING OF APPROPRIATE ENG. ASSOC. w/ DECOMM. PROCESS. CONTINUE CUTTING woody VEG. @ OLD SILL.	ACTION <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Minor repair <input checked="" type="checkbox"/> Engineering	RECOMMENDATIONS <input checked="" type="checkbox"/> Inspection letter <input type="checkbox"/> Deficiency letter <input type="checkbox"/> RE notice <input type="checkbox"/> Engineering study <input type="checkbox"/> Inspection by RE <input type="checkbox"/> Inspection by DSE <input type="checkbox"/> Dam safety order <input type="checkbox"/> Enforcement <input type="checkbox"/> Periodic reinspection <input checked="" type="checkbox"/> Other reinspection AS NEEDED REGARDING DECOMM.
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AREA	PROBLEMS	COMMENTS
UPSTREAM SLOPE / FACE	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Wave erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Sparse rip rap <input type="checkbox"/> 11. Displaced rip rap <input type="checkbox"/> 12. Cracks <input type="checkbox"/> 13. Undermining <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other DECOMM.

TOP OF DAM	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Pits <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Depressions <input type="checkbox"/> 8. Uneven <input type="checkbox"/> 9. Misalignment <input type="checkbox"/> 10. Has overtopped <input type="checkbox"/> 11. Cracks <input type="checkbox"/> 12. Spalling <input type="checkbox"/> 13. Deteriorated joints <input type="checkbox"/> 14. Displaced joints <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input checked="" type="checkbox"/> Other ACCESS RP. 1 - NO APPARENT PROBLEMS; MINOR CRACKING IN ROADWAY NOTED.
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DOWNSTREAM SLOPE / FACE	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input checked="" type="checkbox"/> 4. Burrows <input checked="" type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input checked="" type="checkbox"/> 7. Slides <input checked="" type="checkbox"/> 8. Depressions <input checked="" type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Bolts <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other 24, 5, 7, 8 + 9 - SLOPE IRREGULARITIES ARE LONG-STANDING w/ NO STRUCTURAL DISTRESS INDICATED. ALL FEATURES APPEAR STABLE AT THIS TIME.
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TOE CONTACT	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input checked="" type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Bolts <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Undermining <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other 5 - MINOR; NOT PROBLEMATIC
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AREA		PROBLEMS	COMMENTS
ADJUTMENT CONTACTS	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Bolls <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Undermining <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. No trashguard <input type="checkbox"/> 3. Obstructed <input type="checkbox"/> 4. Plugged <input type="checkbox"/> 5. Rusted <input type="checkbox"/> 6. Damaged <input type="checkbox"/> 7. Gates leaking <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermined <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Erosion <input type="checkbox"/> 15. Holes <input type="checkbox"/> 16. Conduit collapsed <input type="checkbox"/> 17. Spalling <input type="checkbox"/> 18. Outlet undercutting <input type="checkbox"/> 19. Misalignment <input type="checkbox"/> 20. Other	TYPE/SIZE: RISER/OUTLET PIPE (FIVE)	<p>- CONTINUE REMOVAL OF WOODY VEG. NEAR OLD RISER</p> <p>- OUTLET DRY</p>
EMERGENCY SPILLWAY	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No ES <input checked="" type="checkbox"/> 3. Same as PS <input type="checkbox"/> 4. Obstructed <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Displaced rip rap <input type="checkbox"/> 7. Sparse rip rap <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermining <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Spalling <input type="checkbox"/> 17. Outlet erosion <input type="checkbox"/> 18. Misalignment <input type="checkbox"/> 19. Inadequate capacity <input type="checkbox"/> 20. Other	TYPE/SIZE:	
DRAINS / OTHER OUTLETS	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. No bottom drain <input type="checkbox"/> 3. Bottom drain inoperable <input type="checkbox"/> 4. Subsurface drain dry <input type="checkbox"/> 5. Subsurface drain muddy flow <input type="checkbox"/> 6. Subsurface drain obstructed <input type="checkbox"/> 7. No animal guard <input type="checkbox"/> 8. Other	TYPE:	
SKETCHES/COMMENTS			
<p>- NO SIGNIFICANT CHANGES NOTED; APPEARS STABLE w/ NO SIGNS OF DISTRESS.</p> <p>- DISCUSSED MONITORING/MAINTENANCE w/ CO. OFFICIALS @ SITE.</p>			

DAM SAFETY INSPECTION REPORT

NAME CAPE FEAR PLT. #78 ASH ROAD	COUNTY CATAH	NO. 078	INSPECTED BY JRH/AR	DATE 2-21-14
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OWNER DUKE PROGRESS	ADDRESS FILE	PHONE FILE
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TYPE DAM <input checked="" type="checkbox"/> Embankment <input type="checkbox"/> Concrete gravity <input type="checkbox"/> Concrete arch <input type="checkbox"/> Other <input type="checkbox"/> Concrete buttress <input type="checkbox"/> Stone masonry	TYPE INSPECTION <input type="checkbox"/> Initial <input type="checkbox"/> Followup <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Other	SITE CONDITIONS <input type="checkbox"/> Dry <input type="checkbox"/> Snowcover <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Other
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HAZARD DESCRIPTION WATERS NEARBY / MATERIAL COMPOSITION	HAZARD CLASS <input type="checkbox"/> Low (A) <input type="checkbox"/> Intermediate (B) <input checked="" type="checkbox"/> High (C)
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REMARKS - APPEARS STABLE W/ NO SIGNS OF STRUCTURAL DISTRESS. LIQUID LEVEL HAS BEEN LOWERED TO INVESTIGATE MINOR LEAK @ PASEL JOINTS. GROUND COVER & INLET MUCH IMPROVED.	ACTION <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Minor repair <input type="checkbox"/> Engineering	RECOMMENDATIONS <input checked="" type="checkbox"/> Inspection letter <input type="checkbox"/> Deficiency letter <input type="checkbox"/> RE notice <input type="checkbox"/> Engineering study <input type="checkbox"/> Inspection by RE <input type="checkbox"/> Inspection by DSE <input type="checkbox"/> Dam safety order <input type="checkbox"/> Enforcement <input checked="" type="checkbox"/> Periodic reinspection <input type="checkbox"/> Other reinspection
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AREA	PROBLEMS	COMMENTS
UPSTREAM SLOPE / FACE	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input checked="" type="checkbox"/> 4. Burrows <input checked="" type="checkbox"/> 5. Wave erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Sparse rip rap <input type="checkbox"/> 11. Displaced rip rap <input type="checkbox"/> 12. Cracks <input type="checkbox"/> 13. Undermining <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input checked="" type="checkbox"/> 19. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other 4, 5, 19 - SOME SLIGHT IRREG. NOTED, BUT NOT PROBLEMATIC. ONGOING MAINTENANCE IS SATISFACTORY AND APPEARS EFFECTIVE, PARTICULARLY W/ RESPECT TO ANY VERMIN ACTIVITY.

TOP OF DAM	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Pits <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Depressions <input type="checkbox"/> 8. Unevel <input type="checkbox"/> 9. Misalignment <input type="checkbox"/> 10. Has overtopped <input type="checkbox"/> 11. Cracks <input type="checkbox"/> 12. Spalling <input type="checkbox"/> 13. Deteriorated joints <input type="checkbox"/> 14. Displaced joints <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input checked="" type="checkbox"/> Other ACCESS RD.
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DOWNSTREAM SLOPE / FACE	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input checked="" type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Boils <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other 5 - VERY MINOR EROSION. GROUND COVER & VERMIN CONTROL MUCH IMPROVED.
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TOE CONTACT	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input checked="" type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Boils <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Undermining <input checked="" type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other 11 - NO APPARENT CHANGES NOTED. CONDITION STILL DOES NOT APPEAR TO BE PROBLEMATIC. 20 - NO CHANGE NOTED @ OLD TEST PITS - NOT PROBLEMATIC
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AREA		PROBLEMS	COMMENTS
ADJUTANT CONTACTS	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Bolls <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Undermining <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other	
	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No trashguard <input type="checkbox"/> 3. Obstructed <input type="checkbox"/> 4. Plugged <input checked="" type="checkbox"/> 5. Rusted (TRASH RACK) <input type="checkbox"/> 6. Damaged <input type="checkbox"/> 7. Gases leaking <input checked="" type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks (RISER) <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Underslotted <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Erosion <input type="checkbox"/> 15. Holes <input type="checkbox"/> 16. Conduit collapsed <input type="checkbox"/> 17. Spalling <input type="checkbox"/> 18. Outlet undercutting <input type="checkbox"/> 19. Misalignment <input type="checkbox"/> 20. Other	TYPE/SIZE: RISER STRUCTURE / BARREL (KYLE)	5 - TRASH RACK CORRODED; REPLACEMENT RECOMMENDED. 8 - LIQUID LEVEL HAS BEEN LOWERED TO FACILITATE INSP. OF RISER JOINTS. POTENTIAL REPAIRS DISCUSSED.
EMERGENCY SPILLWAY	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No ES <input checked="" type="checkbox"/> 3. Same as PS <input type="checkbox"/> 4. Obstructed <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Displaced rip rap <input type="checkbox"/> 7. Sparse rip rap <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermining <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Spalling <input type="checkbox"/> 17. Outlet erosion <input type="checkbox"/> 18. Misalignment <input type="checkbox"/> 19. Inadequate capacity <input type="checkbox"/> 20. Other	TYPE/SIZE: FILL	
	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. No bottom drain <input type="checkbox"/> 3. Bottom drain inoperable <input type="checkbox"/> 4. Subsurface drain dry <input type="checkbox"/> 5. Subsurface drain muddy flow <input type="checkbox"/> 6. Subsurface drain obstructed <input type="checkbox"/> 7. No animal guard <input type="checkbox"/> 8. Other	TYPE:	

SKETCHES/COMMENTS

— STRUCTURE CONTINUES TO APPEAR STABLE. VEG. COVER IS MUCH IMPROVED; ALSO INLET CHANNEL MAINTENANCE.

— DISCUSSED MINOR LEAKAGE BEING INVESTIGATED @ RISER & POTENTIAL NEED FOR REPAIR PERMIT. TRASH RACK REPLACEMENT WAS ALSO RECOMMENDED.

DAM SAFETY INSPECTION REPORT

NAME CAPE FEAR 1985 ASH POND	COUNTY CHAPEL	NO. 079	INSPECTED BY JLH/AR	DATE 2-21-14
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OWNER DUKE PROGRESS	ADDRESS FILE	PHONE FILE
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TYPE DAM <input checked="" type="checkbox"/> Embankment <input type="checkbox"/> Concrete gravity <input type="checkbox"/> Concrete arch <input type="checkbox"/> Other	TYPE INSPECTION <input type="checkbox"/> Initial <input type="checkbox"/> Followup <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Other	SITE CONDITIONS <input type="checkbox"/> Dry <input type="checkbox"/> Snowcover <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Other
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HAZARD DESCRIPTION DS SECONDARY RD. / MATERIAL COMPOSITION	HAZARD CLASS <input type="checkbox"/> Low (A) <input type="checkbox"/> Intermediate (B) <input checked="" type="checkbox"/> High (C)
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REMARKS - CONTINUING TO APPEAR STABLE. NO SIGNIFICANT CHANGES NOTED IN SLOPE. GROUND COVER + VARMINT MANAGEMENT MUCH IMPROVED. - DISCUSSED RISER LEAKAGE & POTENTIAL REPAIRS.	ACTION <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Minor repair <input type="checkbox"/> Engineering	RECOMMENDATIONS <input checked="" type="checkbox"/> Inspection letter <input type="checkbox"/> Deficiency letter <input type="checkbox"/> RE notice <input type="checkbox"/> Engineering study <input type="checkbox"/> Inspection by RE <input type="checkbox"/> Inspection by DSE <input type="checkbox"/> Dam safety order <input type="checkbox"/> Enforcement <input checked="" type="checkbox"/> Periodic reinspection <input type="checkbox"/> Other reinspection
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AREA	PROBLEMS	COMMENTS
UPSTREAM SLOPE / FACE	<input type="checkbox"/> 1. None <input type="checkbox"/> 11. Displaced rip rap <input type="checkbox"/> 2. Trees <input type="checkbox"/> 12. Cracks <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 13. Undermining <input checked="" type="checkbox"/> 4. Burrows <input checked="" type="checkbox"/> 14. Holes <input checked="" type="checkbox"/> 5. Wave erosion <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 16. Displaced joints <input checked="" type="checkbox"/> 7. Slides <input type="checkbox"/> 17. Deteriorated joints <input checked="" type="checkbox"/> 8. Depressions <input type="checkbox"/> 18. Exposed reinforcement <input checked="" type="checkbox"/> 9. Bulges <input checked="" type="checkbox"/> 19. Other <input type="checkbox"/> 10. Sparse rip rap	COVER: <input checked="" type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other <p style="font-size: 1.2em;">- SLOPE IRREGULARITIES APPEAR BETTER-MANAGED & NOT DISTRESS IS NOTED.</p> <p style="font-size: 1.2em;">- VARMINT CONTROL EFFORTS APPEAR SUCCESSFUL.</p> <p style="font-size: 1.2em;">- VEG. MAINTENANCE IS MUCH IMPROVED.</p>
TOP OF DAM	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 11. Cracks <input type="checkbox"/> 2. Trees <input type="checkbox"/> 12. Spalling <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 13. Deteriorated joints <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 14. Displaced joints <input type="checkbox"/> 5. Pits <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 16. Other <input type="checkbox"/> 7. Depressions <input type="checkbox"/> 8. Unevel <input type="checkbox"/> 9. Misalignment <input type="checkbox"/> 10. Has overtopped	COVER: <input checked="" type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other
DOWNSTREAM SLOPE / FACE	<input type="checkbox"/> 1. None <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 2. Tree <input type="checkbox"/> 12. Boils <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 13. Cracks <input checked="" type="checkbox"/> 4. Burrows <input checked="" type="checkbox"/> 14. Holes <input checked="" type="checkbox"/> 5. Erosion <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 16. Displaced joints <input checked="" type="checkbox"/> 7. Slides <input type="checkbox"/> 17. Deteriorated joints <input checked="" type="checkbox"/> 8. Depressions <input type="checkbox"/> 18. Exposed reinforcement <input checked="" type="checkbox"/> 9. Bulges <input type="checkbox"/> 19. Other <input type="checkbox"/> 10. Wetness	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Other STONE COVER @ W TOE <p style="font-size: 1.2em;">- SEE US SLOPE COMMENTS</p> <p style="font-size: 1.2em;">- PREVIOUSLY NOTED BURROW ON SOUTH FACE NOT VISIBLE</p> <p style="font-size: 1.2em;">- ONGOING MAINTENANCE IS MUCH IMPROVED; GROUND COVER GOOD.</p> <p style="font-size: 1.2em;">8 - 3 SMALL DEPRESSIONS NOTED NEAR CREST ABOUT 600' FROM NORTH END ON THE EAST FACE - DO NOT APPEAR PROBLEMATIC. DISCUSSED GRANULAR BACKFILL & MONITORING</p>
TOE CONTACT	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 11. Seepage <input type="checkbox"/> 2. Trees <input type="checkbox"/> 12. Boils <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 14. Holes <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 7. Slides <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 19. Undermining <input checked="" type="checkbox"/> 10. Wetness <input checked="" type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Other STONE COVER @ W TOE <p style="font-size: 1.2em;">10, 11 - MAINTENANCE/SLOPE MANAGEMENT ARE MUCH IMPROVED. GROUND COVER IS GOOD & STONE ADJ. TOE RAIL APPEARS TO BE EFFECTIVE. SEEPAGE APPEARS UNCHANGED.</p> <p style="font-size: 1.2em;">20 - SOME EQUIP. IMPACT FROM MOWING WHEN WET ON STRIPPED GRASSES.</p>

AREA	PROBLEMS	COMMENTS
ADJUTMENT CONTACTS	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Trees <input type="checkbox"/> 3. High bushes <input type="checkbox"/> 4. Burrows <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Slides <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Bulges <input type="checkbox"/> 10. Wetness <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 12. Boils <input type="checkbox"/> 13. Cracks <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Spalling <input type="checkbox"/> 16. Displaced joints <input type="checkbox"/> 17. Deteriorated joints <input type="checkbox"/> 18. Exposed reinforcement <input type="checkbox"/> 19. Undermining <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other - SEE PREVIOUS TOR COMMENTS
	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No trashguard <input type="checkbox"/> 3. Obstructed <input type="checkbox"/> 4. Plugged <input checked="" type="checkbox"/> 5. Rusted TR <input type="checkbox"/> 6. Damaged <input type="checkbox"/> 7. Gates leaking <input checked="" type="checkbox"/> 8. Joints leaking (RIP RAP) <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermined <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Erosion <input checked="" type="checkbox"/> 15. Holes <input type="checkbox"/> 16. Conduit collapsed <input type="checkbox"/> 17. Spalling <input type="checkbox"/> 18. Outlet undercutting <input type="checkbox"/> 19. Misalignment <input type="checkbox"/> 20. Other	TYPE/SIZE: CONCRETE RIP RAP/CONDUIT (FILE) 5 - SOME CORROSION OF TRASH RACK 8-15 - LIQUID LEVEL HAS BEEN LOWERED TO INVESTIGATE JOINT/HOLE LEAKAGE & POTENTIAL REPAIRS. OUTLETWORKS IN SATISFACTORY CONDITION. NO STRUCTURAL DISTRESS NOTED.
PRINCIPAL SPILLWAY	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No ES <input checked="" type="checkbox"/> 3. Same as PS <input type="checkbox"/> 4. Obstructed <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Displaced rip rap <input type="checkbox"/> 7. Sparse rip rap <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermining <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Spalling <input type="checkbox"/> 17. Outlet erosion <input type="checkbox"/> 18. Misalignment <input type="checkbox"/> 19. Inadequate capacity <input type="checkbox"/> 20. Other	TYPE/SIZE:
	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. No bottom drain <input type="checkbox"/> 3. Bottom drain inoperable <input type="checkbox"/> 4. Subsurface drain dry <input type="checkbox"/> 5. Subsurface drain muddy flow <input type="checkbox"/> 6. Subsurface drain obstructed <input type="checkbox"/> 7. No animal guard <input type="checkbox"/> 8. Other	TYPE:
EMERGENCY SPILLWAY	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No ES <input checked="" type="checkbox"/> 3. Same as PS <input type="checkbox"/> 4. Obstructed <input type="checkbox"/> 5. Erosion <input type="checkbox"/> 6. Displaced rip rap <input type="checkbox"/> 7. Sparse rip rap <input type="checkbox"/> 8. Joints leaking <input type="checkbox"/> 9. Cracks <input type="checkbox"/> 10. Joint deterioration <input type="checkbox"/> 11. Joint displacement <input type="checkbox"/> 12. Undermining <input type="checkbox"/> 13. Voids <input type="checkbox"/> 14. Holes <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Spalling <input type="checkbox"/> 17. Outlet erosion <input type="checkbox"/> 18. Misalignment <input type="checkbox"/> 19. Inadequate capacity <input type="checkbox"/> 20. Other	TYPE/SIZE:
DRAINS / OTHER OUTLETS	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. No bottom drain <input type="checkbox"/> 3. Bottom drain inoperable <input type="checkbox"/> 4. Subsurface drain dry <input type="checkbox"/> 5. Subsurface drain muddy flow <input type="checkbox"/> 6. Subsurface drain obstructed <input type="checkbox"/> 7. No animal guard <input type="checkbox"/> 8. Other	TYPE:

SKETCHES/COMMENTS

- NO EVIDENCE OF STRUCTURAL DISTRESS; SITE APPEARS STABLE @ THIS TIME.
- SLOPE / VEG. / VARMINIT MANAGEMENT EFFORTS APPEAR TO BE EFFECTIVE & SHOULD CONTINUE. AREAS PREVIOUSLY AFFECTED BY SEEPAGE APPEAR UNCHANGED. SITE IS VERY WET DUE IN PART TO RECENT WEATHER CONDITIONS, BUT NO DISTRESS WAS OBSERVED.



North Carolina Department of Environment and Natural Resources
Division of Energy, Mineral and Land Resources
Land Quality Section

Tracy E. Davis, PE, CPM
Director

Pat McCrory, Governor
John E. Skvarla, III, Secretary

March 20, 2014

NOTICE OF INSPECTION
DAM SAFETY LAW

Mr. John Toepfer, PE
Duke Energy
410 S. Wilmington St./NC14
Raleigh, NC 27601

RE: 1956 Ash Pond Dam
State ID: CHATH-075
Chatham County
Watershed: Cape Fear

Dear Mr. Toepfer:

Pursuant to the North Carolina Dam Safety Law of 1967, on February 21, 2014, personnel of the Land Quality Section performed a periodic inspection of the subject high hazard potential dam, which is located near Moncure in Chatham County. The Dam Safety Law of 1967 provides for the certification and inspection of dams in the interest of public health, safety, and welfare. Our goal is to reduce the risk of failure of such dams, to prevent injuries to persons, damage to property, and to ensure the maintenance of stream flows.

According to the above mentioned visual inspection, the dam appears to be in a stable condition at this time. However, we recommend the following items pertinent to maintenance and operation of the dam:

- (1) Continue your efforts to maintain a ground cover sufficient to restrain accelerated erosion on all earthen portions of the structure. This will enhance the stability of the dam should these portions become exposed to overflow or other forms of concentrated flow. Monitor the stump holes and minor erosion observed around such locations, and provide suitable backfill and ground cover if erosion begins to threaten a more serious slope failure.
- (2) Continue to periodically monitor the dam and appurtenant works with respect to elements affecting their safety. This is in light of the legal duties, obligations, and liabilities arising from the ownership and/or operation of a dam. In particular, the old spillway outlet pipe should be uncovered to facilitate more close observation if it were to begin conveying flow for any reason.
- (3) Continue to monitor and control varmint activity on the embankment by backfilling obvious penetrations with crushed stone and/or Implementation of other suitable controls.

Raleigh Regional Office
1628 Mail Service Center, Raleigh, North Carolina 27699-1628 • Phone: 919-791-4200 / FAX: 919-571-4718
3800 Barrett Drive, Raleigh, North Carolina, 27699

Notice of Inspection
CHATH-075
March 20, 2014
Page 2 of 2

It is our understanding that you intend to continue pursuit of the decommissioning of this facility. Please remember to obtain all approvals required by our Department before you proceed with any site work toward that end. With respect to our Safe Dams Program, a permit could be required for any activities that may disturb the structure. As we discussed, it is recommended that you provide advance written notice concerning any work you may be planning to perform that will affect the dam, so that we may help you clarify the scope of any required permitting. In particular, we discussed the potential elimination of old drain pipes, and their physical removal or sealing would likely require a permit from our Division. We will work with you to provide flexibility regarding maintenance activities that will not require a specific permit.

Although the inspections by our staff are relatively infrequent and offer no safety guarantees, we hope that you will use the information provided in this letter as you fulfill your obligation to safely maintain and operate your dam. In order to help us keep our records up-to-date and therefore serve you better, please notify us concerning any changes in address or ownership. Your cooperation in this effort is greatly appreciated.

If there are any questions, or if we can be of any assistance, please do not hesitate to contact us.

Sincerely,



John L. Holley, Jr., FE, CPESC
Regional Engineer
Land Quality Section
Raleigh Regional Office

cc: State Dam Safety Engineer
File



North Carolina Department of Environment and Natural Resources
Division of Energy, Mineral and Land Resources
Land Quality Section

Tracy E. Davis, PE, CPM
Director

Pat McCrory, Governor
John E. Skvarla, III, Secretary

March 20, 2014

NOTICE OF INSPECTION
DAM SAFETY LAW

Mr. John Toepfer, PE
Duke Energy
410 S. Wilmington St./NC14
Raleigh, NC 27601

RE: 1963 Ash Pond Dam
State ID: CHATH-076
Chatham County
Watershed: Cape Fear

Dear Mr. Toepfer:

Pursuant to the North Carolina Dam Safety Law of 1967, on February 21, 2014, personnel of the Land Quality Section performed a periodic inspection of the subject high hazard potential dam, which is located near Moncure in Chatham County. The Dam Safety Law of 1967 provides for the certification and inspection of dams in the interest of public health, safety, and welfare. Our goal is to reduce the risk of failure of such dams, to prevent injuries to persons, damage to property, and to ensure the maintenance of stream flows.

According to the above mentioned visual inspection, the dam appears to be in a stable condition at this time. However, we recommend the following items pertinent to maintenance and operation of the dam:

(1) Continue your efforts to maintain a ground cover sufficient to restrain accelerated erosion on all earthen portions of the structure. This will enhance the stability of the dam should these portions become exposed to overflow or other forms of concentrated flow. Monitor the stump holes and minor erosion observed around such locations, and provide suitable backfill and ground cover if erosion begins to threaten a more serious slope failure.

(2) Continue to periodically monitor the dam and appurtenant works with respect to elements affecting their safety. This is in light of the legal duties, obligations, and liabilities arising from the ownership and/or operation of a dam. In particular, this applies to the area where a significant slope failure was repaired adjacent to the river in the past, and where concentrated seepage was observed on this visit at the downstream toe below the monitoring well access road adjacent to the river. Although the flow was clear and no distress was indicated, the seepage should be monitored for any changes that may signal slope instability.

Raleigh Regional Office
1628 Mail Service Center, Raleigh, North Carolina 27699-1628 • Phone: 919-791-4200 / FAX: 919-571-4718
3800 Barrett Drive, Raleigh, North Carolina, 27699

Notice of Inspection
CHATH-076
March 20, 2014
Page 2 of 2

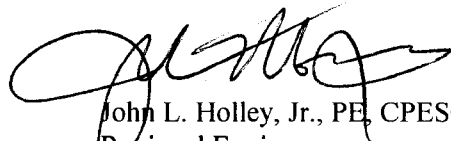
(3) Continue to monitor and control varmint activity on the embankment by backfilling obvious penetrations with crushed stone and/or Implementation of other suitable controls.

It is our understanding that you intend to continue pursuit of the decommissioning of this facility. Please remember to obtain all approvals required by our Department before you proceed with any site work toward that end. With respect to our Safe Dams Program, a permit could be required for any activities that may disturb the structure. As we discussed, it is recommended that you provide advance written notice concerning any work you may be planning to perform that will affect the dam, so that we may help you clarify the scope of any required permitting. We will work with you to provide flexibility regarding maintenance activities that will not require a specific permit.

Although the inspections by our staff are relatively infrequent and offer no safety guarantees, we hope that you will use the information provided in this letter as you fulfill your obligation to safely maintain and operate your dam. In order to help us keep our records up-to-date and therefore serve you better, please notify us concerning any changes in address or ownership. Your cooperation in this effort is greatly appreciated.

If there are any questions, or if we can be of any assistance, please do not hesitate to contact us.

Sincerely,



John L. Holley, Jr., PE, CPESC
Regional Engineer
Land Quality Section
Raleigh Regional Office

cc: State Dam Safety Engineer
File



North Carolina Department of Environment and Natural Resources
Division of Energy, Mineral and Land Resources
Land Quality Section

Tracy E. Davis, PE, CPM
Director

Pat McCrory, Governor
John E. Skvarla, III, Secretary

March 20, 2014

NOTICE OF INSPECTION
DAM SAFETY LAW

Mr. John Toepfer, PE
Duke Energy
410 S. Wilmington St./NC14
Raleigh, NC 27601

RE: 1970 Ash Pond Dam
State ID: CHATH-077
Chatham County
Watershed: Cape Fear

Dear Mr. Toepfer:

Pursuant to the North Carolina Dam Safety Law of 1967, on February 21, 2014, personnel of the Land Quality Section performed a periodic inspection of the subject high hazard potential dam, which is located near Moncure in Chatham County. The Dam Safety Law of 1967 provides for the certification and inspection of dams in the interest of public health, safety, and welfare. Our goal is to reduce the risk of failure of such dams, to prevent injuries to persons, damage to property, and to ensure the maintenance of stream flows.

According to the above mentioned visual inspection, the dam appears to be in a stable condition at this time. However, we recommend the following items pertinent to maintenance and operation of the dam:

- (1) Continue your efforts to maintain a ground cover sufficient to restrain accelerated erosion on all earthen portions of the structure. This will enhance the stability of the dam should these portions become exposed to overflow or other forms of concentrated flow. Monitor the stump holes and minor erosion observed around such locations, and provide suitable backfill and ground cover if erosion begins to threaten a more serious slope failure. In addition, continue to keep trees and restrictive woody vegetation cut away from the spillway.
- (2) Continue to periodically monitor the dam and appurtenant works with respect to elements affecting their safety. This is in light of the legal duties, obligations, and liabilities arising from the ownership and/or operation of a dam. Your inspection program using an independent consultant is a good way to address this item.
- (3) Continue to monitor and control varmint activity on the embankment by backfilling obvious penetrations with crushed stone and/or implementation of other suitable controls.

Raleigh Regional Office
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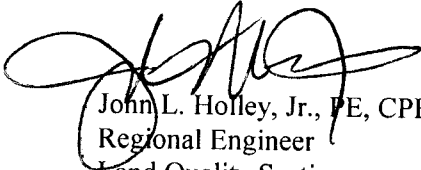
Notice of Inspection
CHATH-077
March 20, 2014
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It is our understanding that you intend to continue pursuit of the decommissioning of this facility. Please remember to obtain all approvals required by our Department before you proceed with any site work toward that end. With respect to our Safe Dams Program, a permit could be required for any activities that may disturb the structure. As we discussed, it is recommended that you provide advance written notice concerning any work you may be planning to perform that will affect the dam, so that we may help you clarify the scope of any required permitting. We will work with you to provide flexibility regarding maintenance activities that will not require a specific permit.

Although the inspections by our staff are relatively infrequent and offer no safety guarantees, we hope that you will use the information provided in this letter as you fulfill your obligation to safely maintain and operate your dam. In order to help us keep our records up-to-date and therefore serve you better, please notify us concerning any changes in address or ownership. Your cooperation in this effort is greatly appreciated.

If there are any questions, or if we can be of any assistance, please do not hesitate to contact us.

Sincerely,



John L. Holley, Jr., PE, CPESC
Regional Engineer
Land Quality Section
Raleigh Regional Office

cc: State Dam Safety Engineer
File