

DAM SAFETY INSPECTION REPORT

NAME CAPE FEAR P.L.T. #78 ASH Pond		COUNTY CATAH	NO. 078	INSPECTED BY JRH/AR	DATE 2-21-14
OWNER DUKE PROGRESS		ADDRESS FILE			PHONE FILE
TYPE DAM ☒ Embankment ☐ Concrete gravity ☐ Concrete arch ☐ Other ☐ Concrete buttress ☐ Stone masonry		TYPE INSPECTION ☐ Initial ☐ Followup ☒ Periodic ☐ Other		SITE CONDITIONS ☐ Dry ☐ Snowcover ☒ Wet ☐ Other	
HAZARD DESCRIPTION WATERS NEARBY / MATERIAL COMPOSITION				HAZARD CLASS ☐ Low (A) ☒ Intermediate (B) ☒ High (C)	
REMARKS - APPEARS STABLE W/ NO SIGNS OF STRUCTURAL DISTRESS. LIQUID LEVEL HAS BEEN LOWERED TO INVESTIGATE MINOR LEAK @ RISER JOINTS. GROUND COVER & INLET MUCH IMPROVED.		ACTION ☐ None ☐ Maintenance ☒ Monitoring ☐ Minor repair ☐ Engineering		RECOMMENDATIONS ☒ Inspection letter ☐ Deficiency letter ☐ RE notice ☐ Engineering study ☐ Inspection by RE ☐ Inspection by DSE ☐ Dam safety order ☐ Enforcement ☒ Periodic reinspection ☐ Other reinspection	
AREA	PROBLEMS		COMMENTS		
UPSTREAM SLOPE / FACE	☐ 1. None ☐ 11. Displaced rip rap ☐ 2. Trees ☐ 12. Cracks ☐ 3. High bushes ☐ 13. Undermining ☒ 4. Burrows ☐ 14. Holes ☒ 5. Wave erosion ☐ 15. Spalling ☐ 6. Livestock damage ☐ 16. Displaced joints ☐ 7. Slides ☐ 17. Deteriorated joints ☐ 8. Depressions ☐ 18. Exposed reinforcement ☐ 9. Bulges ☒ 19. Other ☐ 10. Sparse rip rap		COVER: ☒ Vegetation ☐ Rip rap ☐ Concrete ☐ Asphalt ☐ Other 4, 5 & A - SOME SLIGHT IRREG. NOTED, BUT NOT PROBLEMATIC. ONGOING MAINTENANCE IS SATISFACTORY AND APPEARS EFFECTIVE, PARTICULARLY W/ RESPECT TO ANY VERMIN ACTIVITY.		
TOP OF DAM	☒ 1. None ☐ 11. Cracks ☐ 2. Trees ☐ 12. Spalling ☐ 3. High bushes ☐ 13. Deteriorated joints ☐ 4. Burrows ☐ 14. Displaced joints ☐ 5. Pits ☐ 15. Exposed reinforcement ☐ 6. Livestock damage ☐ 16. Other ☐ 7. Depressions ☐ 8. Unevel ☐ 9. Misalignment ☐ 10. Has overtopped		COVER: ☒ Vegetation ☐ Gravel ☐ Concrete ☐ Asphalt ☒ Other ACCESS RD.		
DOWNSIDE SLOPE / FACE	☐ 1. None ☐ 11. Seepage ☐ 2. Trees ☐ 12. Boils ☐ 3. High bushes ☐ 13. Cracks ☐ 4. Burrows ☐ 14. Holes ☒ 5. Erosion ☐ 15. Spalling ☐ 6. Livestock damage ☐ 16. Displaced joints ☐ 7. Slides ☐ 17. Deteriorated joints ☐ 8. Depressions ☐ 18. Exposed reinforcement ☐ 9. Bulges ☐ 19. Other ☐ 10. Wetness		COVER: ☒ Vegetation ☐ Rip rap ☐ Concrete ☐ Other 5 - VERY MINOR EROSION. GROUND COVER & VERMIN CONTROL MUCH IMPROVED.		
TOE CONTACT	☐ 1. None ☒ 11. Seepage ☐ 2. Trees ☐ 12. Boils ☐ 3. High bushes ☐ 13. Cracks ☐ 4. Burrows ☐ 14. Holes ☐ 5. Erosion ☐ 15. Spalling ☐ 6. Livestock damage ☐ 16. Displaced joints ☐ 7. Slides ☐ 17. Deteriorated joints ☐ 8. Depressions ☐ 18. Exposed reinforcement ☐ 9. Bulges ☐ 19. Undermining ☐ 10. Wetness ☒ 20. Other		COVER: ☒ Vegetation ☐ Rip rap ☐ Concrete ☐ Other 11 - NO APPARENT CHANGES NOTED. CONDITION STILL DOES NOT APPEAR TO BE PROBLEMATIC. 20 - NO CHANGE NOTED @ OLD TEST PITS - NOT PROBLEMATIC		

AREA		PROBLEMS	COMMENTS
ADJUTANT CONTACTS	☒ 1. None ☐ 2. Trees ☐ 3. High bushes ☐ 4. Burrows ☐ 5. Erosion ☐ 6. Livestock damage ☐ 7. Slides ☐ 8. Depressions ☐ 9. Bulges ☐ 10. Wetness ☐ 11. Seepage ☐ 12. Boils ☐ 13. Cracks ☐ 14. Holes ☐ 15. Spalling ☐ 16. Displaced joints ☐ 17. Deteriorated joints ☐ 18. Exposed reinforcement ☐ 19. Undermining ☐ 20. Other	COVER: ☒ Vegetation ☐ Rip rap ☐ Concrete ☐ Other	
	☐ 1. None ☐ 2. No trashguard ☐ 3. Obstructed ☐ 4. Plugged ☒ 5. Rusted (TRASH RACK) ☐ 6. Damaged ☐ 7. Gates leaking ☒ 8. Joints leaking ☐ 9. Cracks (RISER) ☐ 10. Joint deterioration ☐ 11. Joint displacement ☐ 12. Undermined ☐ 13. Voids ☐ 14. Erosion ☐ 15. Holes ☐ 16. Conduit collapsed ☐ 17. Spalling ☐ 18. Outlet undercutting ☐ 19. Misalignment ☐ 20. Other	TYPE/SIZE: RISER STRUCTURE / BARREL (KYLE)	5 - TRASH RACK CORRODED; REPLACEMENT RECOMMENDED. 8 - LIQUID LEVEL HAS BEEN LOWERED TO FACILITATE INSPECTION OF RISER JOINTS. POTENTIAL REPAIRS DISCUSSED.
EMERGENCY SPILLWAY	☐ 1. None ☐ 2. No ES ☒ 3. Same as PS ☐ 4. Obstructed ☐ 5. Erosion ☐ 6. Displaced rip rap ☐ 7. Sparse rip rap ☐ 8. Joints leaking ☐ 9. Cracks ☐ 10. Joint deterioration ☐ 11. Joint displacement ☐ 12. Undermining ☐ 13. Voids ☐ 14. Holes ☐ 15. Exposed reinforcement ☐ 16. Spalling ☐ 17. Outlet erosion ☐ 18. Misalignment ☐ 19. Inadequate capacity ☐ 20. Other	TYPE/SIZE: FILL	
	☒ 1. None ☐ 2. No bottom drain ☐ 3. Bottom drain inoperable ☐ 4. Subsurface drain dry ☐ 5. Subsurface drain muddy flow ☐ 6. Subsurface drain obstructed ☐ 7. No animal guard ☐ 8. Other	TYPE:	
DRAINS / OTHER OUTLETS			
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.			