



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

**NOTICE OF INSPECTION**

Date: March 11, 2014

Duke Energy Corporation  
Attention: Sean DeNeale  
526 South Church Street, ECI-013  
Charlotte, North Carolina 28202

RE: Allen Active Ash Basin Dam  
GASTO-061 – High Hazard Potential  
Gaston County

Dear Mr. DeNeale:

The "Dam Safety Law of 1967," as amended, provides for the certification and inspection of dams in the interest of public health, safety, and welfare, in order to reduce the risk of failure of such dams; to prevent injuries to persons, damage to property; and to insure the maintenance of stream flows.

Our record indicate that you are the owner and/or responsible for the referenced dam, which is located off Plant Allen Road in Gaston County and was inspected on February 19, 2014 and March 1, 2014 by personnel of the Land Quality Section. This inspection revealed the conditions outlined below. Please note that references to "right" and "left" in descriptions of the dam structure are referenced while looking in the downstream direction.

1. Seepage and/or wetness were observed along the downstream toe of the eastern and southern sections of the dam embankment. Please continue to monitor periodically with respect to clarity and quantity, and notify this office immediately if you notice any sudden changes.
2. Cell 1, in the area adjacent to the transmission tower and nearby bend in the embankment, has scarping along the upstream slope. Please continue to maintain the lowered impoundment condition until Stage 3 repairs have been completed pursuant to our Repair Schedule Response letter issued January 25, 2011.

3. Areas of surface damage due to mower activity and areas of stressed vegetation due to recent rains were observed on the downstream slope of the dam. It is recommended that the areas be monitored and vegetation reestablished as needed to prevent surface erosion.
4. Small trees and high vegetation is growing on the upstream slope of the dam in the rip rap wave protection. Though you have cut this growth off the dam in the past, it should be kept off by re-cutting periodically. After cutting, the debris should be removed from the dam.

Additionally, the following general maintenance procedures are recommended:

1. Maintain a ground cover sufficient to restrain accelerated erosion on all earthen portions of the structure.
2. Periodically monitor the subject dam and appurtenant works with respect to elements affecting its safety. This is in light of the legal duties, obligations, and liabilities arising from the ownership and/or operation of a dam.

During this inspection we also investigated the potential for property damage and loss of life in the event that your dam fails. This investigation determined that failure of your dam could result in significant environmental damage to Lake Wylie and possible interruption of utility service. Therefore, we are listing your dam in the "High Hazard Potential" Note that all hazard classifications are subject to change due to downstream conditions.

Please be advised that the Division of Energy, Mineral and Land Resources must approve any excavation, modification, or major repair work to this dam before the work commences. Also, note that this dam may not be breached, meaning the dam may not be drained by cutting a notch in the dam, without prior engineered breach plans being submitted to and approved by the Division of Energy, Mineral and Land Resources.

The "Dam Operation Maintenance and Inspection Manual" published by this Division provides inspection guidelines and recommended routine dam maintenance activities for the owner as well as emergency procedures in the event of possible dam failure. This document may be viewed online at <http://portal.ncdenr.org/web/lr/dams>.

Although every reasonable effort is made to determine the safety of each dam, our resources generally limit us to a surficial inspection of the dam and its appurtenant structures. This letter carries no implication regarding the internal stability of the dam. Dams, and especially their spillways and conduits, deteriorate with age. You are therefore advised to keep a close watch on the dam and notify us if you detect any changes, especially cracks, ground movements, or changes in seepage rate or color.

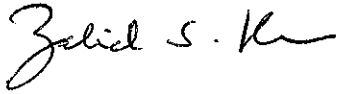
Please notify this office in writing if you wish to assert that you have no ownership or otherwise are not responsible for maintenance or repairs to the subject dam. If you have an emergency situation during non-office hours, you should notify 911 and the State Emergency Operations Center at 1 (800) 858-0368. They will notify the appropriate personnel in this Office of the situation.

Duke Energy Corporation  
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Allen Active Ash Basin Dam  
GASTO-061

Your cooperation and consideration in maintaining a safe dam is appreciated. Should you have any questions concerning our inspection, please contact me at (704) 663-1699.

Sincerely,

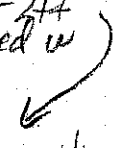


Zahid S. Khan, CPM, CPESC, CPSWQ  
Regional Engineer  
Land Quality Section

THE/cys

cc: Steven M. McEvoy, PE, State Dam Safety Engineer

# DAM SAFETY INSPECTION REPORT

NAME		COUNTY	NO.	INSPECTED BY	DATE
ALLEN ACTIVE ASH POND DAM		GASTO	061	Eplin, Kormanik	2/19/2014
OWNER		ADDRESS		PHONE	
DURE ENERGY		See file			
TYPE DAM		TYPE INSPECTION		SITE CONDITIONS	
<input type="checkbox"/> Concrete gravity <input checked="" type="checkbox"/> Enbankment <input type="checkbox"/> Concrete buttress <input type="checkbox"/> Stone masonry <input checked="" type="checkbox"/> Ash Basin		<input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Initial <input type="checkbox"/> Followup <input type="checkbox"/> Other		<input type="checkbox"/> Dry <input type="checkbox"/> Snowcover <input type="checkbox"/> Wet <input type="checkbox"/> Other	
HAZARD DESCRIPTION		HAZARD CLASS			
See file		<input type="checkbox"/> Low (A) <input type="checkbox"/> Intermediate (B) <input checked="" type="checkbox"/> High (C)			
REMARKS		ACTION		RECOMMENDATIONS	
Don Scruggs, Alex Papp, Alex Vogl, Scott Nordgren in attendance. * It rained heavily this morning *		<input type="checkbox"/> None <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor repair <input type="checkbox"/> Engineering		<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	
AREA	PROBLEMS	COMMENTS			
UPSTREAM SLOPE / FACE	<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. 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 checked="" type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other Vegetation @ waters edge U/S, should be removed periodically - Scarp on U/S near transmission tower 1-2ft - New scarp in cell 1, would be addressed w/  Impoundment remains lowered (Cell 1) awaiting repair (see 3rd repair plan)			
	<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. Ruts <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 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"/> 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. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other Heavy snow/recent rains, grass cover stressed in drainage areas of slopes, seeding/repair of any (under seeded) areas recommended. Some mower rutting, repair as needed - Ground cover needed under double barrels D/S slope			
	<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. 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 type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other Continue to remove vegetation in rip rap @ toe - recommended Ponding/active flow in all areas below drainage swales due to rain drainage,			

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. 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  
PRINCIPAL SPILLWAY	<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 type="checkbox"/> 20. Other	TYPE/SIZE: Concrete riser w/ RCP barrel No problems observed, active flow
EMERGENCY SPILLWAY	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No ES <input 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: Same as
DRAINS / OTHER OUTLETS	<input 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: None observed

SKETCHES/COMMENTS

January 25, 2011 - Repair Schedule Response Letter issued - scarp repairs to take place after Stage 2 repairs (completed) and after EPA finalizes regulations for coal combustion residuals impoundments provided emergency conditions don't occur to require faster response. Cell 1 is "drained impoundment awaiting repair"; must be maintained at elevation 635 or lower.

Piezometers monitored monthly according to Alex Papp.

# DAM SAFETY INSPECTION REPORT

NAME <i>Allen Active Ash Basin Dam</i>	COUNTY <i>GASTO</i>	NO. <i>061</i>	INSPECTED BY <i>EPLIN, KORMANIK</i>	DATE <i>3/1/2014</i>
OWNER <i>See file</i>	ADDRESS <i>See file</i>			PHONE

TYPE DAM <input checked="" type="checkbox"/> Embankment <input type="checkbox"/> Concrete gravity <input type="checkbox"/> Concrete arch <input checked="" type="checkbox"/> Other <input type="checkbox"/> Concrete buttress <input type="checkbox"/> Stone masonry <i>Ash basin</i>	TYPE INSPECTION <input type="checkbox"/> Initial <input checked="" type="checkbox"/> Followup <input type="checkbox"/> Periodic <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 <i>See file</i>		HAZARD CLASS <input type="checkbox"/> Low (A) <input type="checkbox"/> Intermediate (B) <input checked="" type="checkbox"/> High (C)

REMARKS <i>Follow-up Tim Russell, Bob Scruggs in attendance</i>	ACTION <input type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor repair <input type="checkbox"/> Engineering	RECOMMENDATIONS <input 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 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 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 type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other  <div style="font-size: 2em; text-align: center;">DNZ</div>
TOP OF DAM	<input 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. Ruts <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. Uneven <input type="checkbox"/> 9. Misalignment <input type="checkbox"/> 10. Has overtopped	COVER: <input type="checkbox"/> Vegetation <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other  <div style="font-size: 2em; text-align: center;">DNZ</div>
DOWNSTREAM SLOPE / FACE	<input type="checkbox"/> 1. None <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 2. Trees <input type="checkbox"/> 12. Bolls <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. Other <input type="checkbox"/> 10. Wetness	COVER: <input checked="" type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other  <i>Toe drain outlets observed were plastic pipe</i>
TOE CONTACT	<input type="checkbox"/> 1. None <input type="checkbox"/> 11. Seepage <input type="checkbox"/> 2. Trees <input type="checkbox"/> 12. Bolls <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 type="checkbox"/> 10. Wetness <input type="checkbox"/> 20. Other	COVER: <input checked="" type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other  <i>CMP Road culverts observed below toe of dam</i>

AREA	PROBLEMS	COMMENTS
ABUTMENT 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. 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 type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Other  <i>DNZ</i>
PRINCIPAL SPILLWAY	<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 type="checkbox"/> 20. Other	TYPE/SIZE: <i>Concrete riser with RCP barrel</i>  <i>Clear flow, outlet intact, stable</i>
EMERGENCY SPILLWAY	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. No ES <input 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: <i>Same as</i>  
DRAINS / OTHER OUTLETS	<input 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:  <i>See downstream slope section.</i>
SKETCHES/COMMENTS		