

MAKING OUR DAMS SAFE

These are a few of the Rehabilitation/Rebuild options for the Colliery Dams we have thought of and there are more:

1. Rehabilitate both dams to 1:10,000 year event
2. Reduce water levels so rehab can be to 1:5,000 year event (reduced cost)
3. Reduce water levels more so rehab can be 1:3,000 year event (further reduce costs)
4. Reduce water levels in one dam only, rehabilitate both or rebuild one/rehab other
5. Rebuild one dam rehabilitate other
6. Rebuild both dams
7. Remove one dam/Rehabilitate other dam
8. Remove one dam/Rebuild other
9. Other.....?

These are a few of the methods that have been suggested for rehabilitation:

1. Seismic upgrade to dam by berming (piles of big rock strategically placed at the dams)
2. Driving pilings to strengthen the dams
3. Use sheet piling to strengthen the dams
4. Inject grout (cement) into the dams to increase stiffness
5. rock bolting; a technique of drilling into the rock beneath the wall and anchoring the wall to the rock
6. Upgrade the spillways by making them deeper which also reduces water levels
7. Upgrade with concrete on the backside
8. Cement on front side of dams
9. Gates on spillways
10. Other....?