

## Water Video Discussion Questions

### Video #1 - Who Owns the Water of the Great Lakes?

1. What is the major issue surrounding the water in the Great Lakes?
2. Some companies have looked at the Great Lakes as a resource that should be shared throughout the United States. What do you think?
3. Do you think that transporting water from the Great Lakes is a cost effective solution to providing water in other regions? Does every community have the right to obtain sufficient water?

### Video #2 - Water Solutions Bernheim Forest: Controlling Water Runoff

1. Define non-point-source (NPS) water pollution. How is it different from point-source pollution?
2. The green roof on the Bernheim Visitor Center helps reduce NPS pollution. Describe how it does this.
3. According to Claude Stephens, Bernheim's education director, what is one of the most significant types of NPS pollution in Kentucky? How is a dry sink or French drain designed to reduce this form of NPS?

4. Describe the cistern system at the Visitor Center. How does it help with water conservation?

Video #3 - Water Solutions Bernheim Forest: Reusing Wastewater

1. What NPS problem is the peat filtration system at Bernheim designed to solve? Describe how this system works.
2. Describe how the peat filtration system helps Bernheim conserve water.
3. Claude Stephens, Bernheim's education director, talks about problems with rural wastewater. What kinds of problems might occur with wastewater in urban settings?

Video #4 - Agricultural Runoff and the Gulf of Mexico Dead Zone

1. Explain why excess nitrogen in the water can lead to fewer fish and shrimp. Which organisms grow more abundantly with added nitrogen?
2. What do you think farmers should do for the fishermen? Do you think that giving the fishermen a share of the corn profits is a good idea?
3. Brainstorm some ways to reduce the amount of nitrogen in the water reaching the Gulf of Mexico.