

## BMP Mapping Scenarios

Cut out the following scenarios and distribute to the groups.

### Scenario 1:

An urban agriculture grant has enabled you to develop a small farm that you could direct market fruits and vegetables to consumers. You would like to grow a variety of crops, including row crops like small grains (wheat, oats and rice), peanuts and corn as well as some horticultural vegetables and small fruits. Make a farm conservation plan that would maximize production but limit erosion. As a small farmer, you have a very tight budget, but are committed to your environmental stewardship.

### Scenario 2:

Your mid-sized family farm has been in production for 100 years. Overgrazing in some pastures have left bare, compacted soil. You are growing primarily agronomic row crops like wheat, corn, soybean and cotton as well as a small herd of beef cattle. You also need to build a new barn and will be disturbing land in close proximity to a creek. Lay out a plan that will rejuvenate the soil for production as well as protect the water quality of the local creek.

### Scenario 3:

A big box discount store has decided to add a new store to the area. They have been granted permits for construction and development from the local regulatory agencies contingent on two things; 1. Disturb as little acreage as possible and 2. Minimize water quality impacts on existing streams around site. Public opinion is already in an uproar over the construction. What could your company do to protect the environment and curry favor with the public? What will this mean for your bottom line? What would happen if the public remains upset?

### Scenario 4:

The Environmental Protection Agency (EPA) has agreed with the local regulatory agency to allow a nonprofit housing organization to build a series of small homes along the Dwarf Creek. The Dwarf Creek has been known around the area for its large population of the endangered Dwarf Mussel. With this rare species being located along the property, the EPA has implemented stringent rules for the building to occur. The builders must keep water quality pristine by using whatever measures necessary. A \$10,000.00 per day fine could be assessed if the nonprofit is found in violation with these rules. What practices will you include in your erosion and sediment control plan to keep the nonprofit in compliance? Do not forget- your budget is tight.

### Scenario Five:

A business that advertises their environmentally business practices has a new warehouse they would like to develop right in the heart of National Audubon country. Their build was approved, but they must follow stringent rules above and beyond what their local agencies require for sediment and erosion control. They must use polyacrylamide to control turbidity on the site to avoid impacts on the surrounding waterways as well as using the maximum amount of BMPs. The budget is limited for this aspect of the project. Can you keep the company in compliance without incurring excessive costs?