Name: _____ Date: _____ Period: _____

GROUNDWATER FOUNDATION
Provide | Educate | Sustain

CONTAMINATION SCENARIO

The Situation

The Facts

Your Mission

Answer the following questions posed by the residents. Use the Aquifer Lab modeling application to help you complete your work.

1. From Well ___ which direction(s) is the contaminant plume most likely going to go (North, Northeast, South, etc.)?

2. Other than Well ___, which well(s) are at risk of contamination?

3. Assuming the Aquifer Lab's assumptions are correct, if the residents start pumping water from Well ___, will that reduce the risk of contamination of any of the wells you listed in question 2? Explain your answer.

4. Assuming the Aquifer Lab's assumptions are correct, if the residents start pumping water from Well ___, how will that affect the velocity of the contaminant plume?

5. Approximately how long will it take for the _____ to travel from the source (Well ___) to the nearest well in danger of being contaminated?
   a. Less than one week
   b. About one year
   c. 2-4 years
   d. More than 5 years

6. The residents want to know more about the contaminant, including:
   - What type of contaminant is it?
   - What are its common sources?
   - What environmental/health concerns does it pose?