Today you will be given a scenario that depicts a country, town or farm that is having trouble with the water cycle. Read the scenario and try to take into account all of the different issues that are affecting your scenario. Using the internet, text book and outside sources try and come up with a plan to help the water cycle in your region.

The plan should include three things,

1. A description of the situation and how it is affecting the water cycle in your situation.
2. Proposed plans that will help the section of the water cycle that is being affected in your region.
3. A description on how those plans will affect the water cycle in your area

Your proposal must be over one page in length.

*You live on a small street in New Jersey that is just down the road from a sewage treatment plant. You have well water and are very happy with the clean and potable water that comes out of your faucet every day. You use the water to do your families cooking, cleaning and drinking.*

*However one day you notice that there is a slightly yellow color to your well water. It also has a metallic taste and smells a bit like sulfur. Fearing the worst you have a lab come and test the water for contamination.*

*A week later the lab calls back and says that the aquifer that you well is tapping into has been contaminated with bacteria. The bacteria that your well is contaminated with are commonly found in sewage treatment plants.*

*You decide to write a concerned letter to the head of the sewage treatment plant to ensure that you do not have to pay the costs of fixing this problem. You should include what the problem is, what may have happened, how the problem can be fixed and why you should not have to cover the costs.*

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Your proposal must be over one page in length.

*You are a member of congress representing a district in Florida. This district has been recently hit by a large number of sinkholes that have opened up. Several of the sink holes have opened up below houses causing hundreds of thousands of dollars of damage. One has even opened under a home when a man and his dog were sleeping. Both the man and his dog did not survive.*

*After some inspection from geological experts, you have been told that the sinkholes are opening because of land subsidence. It is now your job to come up with an action plan and make sure that your district gets the funding from the national government that it needs to fix this problem.*

*In order to make sure you secure funding, you should come up with a proposal that states the nature of the problem, what is the root source of the problem, how you plan to fix the problem and what the money will be used on.*

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Your proposal must be over one page in length.

*You are the soil experts that were brought in by mayor of a small town in the middle of the United States. The town has a population of 1000 people with a large percentage of those people being farmers. The farmers have been noticing a large amount of sheet erosion on their farm fields.*

*The township has soil that is a fairly fertile loamy soil, however they are prone to flooding. The town lies near a major river and has a chance to flood when there is a large rainstorm. Also most of your farms have been handed down from generation to generation. The farms do not have modern sprinkler equipment. Most farmers tend to flood their fields and let them drain once or twice a week.*

*Your town is in a large, open and flat part of the United States. The winds often are very high and can rip across the land. Most farms have few plants other than their crops planted on their farms.*

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Your proposal must be over one page in length.

*You are a large scale farmer that lives in South America. You own a farm that is on a hill. You have noticed that a large amount of your farmable land is being lost to soil erosion every year. Your farm is over 500 hectares in size and grows only wheat.*

*Since you have been noticing your soil is starting to erode, you have started saving up money in order to fix the problem. You have saved enough money that will allow you to build or fix any problem that you see.*

*You have noticed a large amount of sheet erosion due to the runoff that comes with rainstorms. The runoff carries the soil downhill to the local river that runs below the hill. Also you have started to notice that there are several gullies formed in the farm fields themselves. These channel water down hill and into the local river.*