The purpose of this activity is to get you to think about the results and to use the information to make a recommendation regarding Cryptosporidium and the effectiveness of watershed protection vs the cost of filtration. Think about the information, and answer these questions on a separate piece of paper as you go through case. 

NOTE: do not “cut and paste” from any website. Use your own words to answer each question.

The NYC Watershed Protection Plan (2 pt)
1) NY City gets its water from a huge watershed and distribution system that spans over 4 counties. List 2 watershed protection initiatives and explain how each helps protect NY City’s drinking water.

Cryptosporidium (2 pt)
2) What is Cryptosporidium? What symptoms does it cause?
3) What are the most likely sources in the NY City watershed?

Methods (2 pts)
4) Of the methods listed, the EPA approved using fluorescent antibodies to detect Cryptosporidium parvum. Explain how this method works and why it would be specific for Cryptosporidium parvum.

Results
You may find it convenient to put your results in the chart below.

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Conclusion (4 pts)
So-- you have all the data -- it’s time to argue your case. The final questions is:

5) With respect to Cryptosporidium, should NYC have to build a multi-billion dollar filtration plant, or is watershed protection enough?

Your argument for or against filtration should include information about:
• The nature of Cryptosporidium and the disease it causes
• What the results tell you about whether or not Cryptosporidium moves through the watershed
• What NYC is currently doing to protect its watershed
• Whether you think this is adequate protection or not, and why

You must refer to your results and include information from the references as needed.