# **Environmental Science FRQs**

Sarina Prather 8-17-20

- a) 2 human activities that have caused a decrease in the amount of freshwater flow to the Everglades are agricultural and urban developments that needed to divert the water towards those areas and away from that ecosystem. Agricultural developments require irrigation to grow the abundance of crops, and urban expansion needs that water for the people living there, the sewage system, and everything else we use water for in a city. However, the extremely large production of a nonessential domestically produced product known as sugarcane is an immense contributor to the degradation of the Everglades. The urban development is there to support that growing industry.
- b) I. One human activity is the fertilization of sugarcane in the agricultural areas adjacent to the Everglades, and phosphorus is one of the primary nutrients used in fertilizer. The runoff will eventually travel to the Everglades, including the phosphorus-rich fertilizer, and pollute it.

II. One way this increase can affect the Everglades is because some of this nutrient-rich fertilizer is being carried into the water, some of the nutrient-loving plants begin to replace the native species and eventually lead to a eutrophication problem in the water, or an extreme overgrowth in the benefiting plants that kills or greatly harms everything else in the water.

III. One way farmers can decrease the likelihood of phosphorus runoff and therefore pollution of the Everglades is to use buffer strips, which are small areas of land in permanent vegetation which control the water runoff and slow down erosion. They could also be more limiting in the planting of soil-stripping crops that will need to be heavily fertilized if not solved by another possible solution: planting a cover crop to naturally fertilize the land.

- c) A reduction in water quantity leads to a soil reduction as well; worse water quality pollutes the Everglades and destroys the diversity in the unique ecosystem because it has a naturally low nutrients when you introduce high levels of phosphorus; lastly, loss of habitat results in a huge loss in species and genetic diversity. Native species are choked out by thriving ones that adapted to the three effects listed above.
- d) I. Restoring water quantity and quality will result in a healthier ecosystem that can support a greater variety of species, both plant and animal. II. Fixing the water will improve fish populations around Florida and help the commercial and sporting fishing business.

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Raffaela Di Napoli

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