**Sugar Creek Waste Water Treatment Assignment**

* Draw a model of the waste water treatment system including inputs, outputs, storages, and flows
  + Look back at topic 1.2 Systems & Models
  + Review the steps involved in this process
* Discuss positive and negative feedback mechanisms within the system
* Write a **500 minimum word** essay outlining the process and how this system works. Don’t freak out. This sheet you are reading right now contains 198 words! Make sure to include the following:
  + Organic waste (fecal matter)
  + Inorganic waste (paper, sediments, trash, etc.) Remember the gift shop, Ally!
  + Organisms used to clean the water (aerobic and anaerobic bacteria)
  + Extracted solid waste (fertilizer, biofuel)
  + Buffers (magnesium hydroxide)
  + Biochemical Oxygen Demand (BOD)/dissolved oxygen = measurement of pollution
  + Equipment used
  + Sampling stations
  + Regulations in place to ensure the system is working properly (think of volume, overflow)
  + Environmental concerns
  + Flaws in the system
  + Anything you learned!!!
  + Lastly, you need to include a reflection
    - How has this visit influenced your attitude towards our water treatment systems? Aquatic systems?
    - What can you take away from this experience?

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