

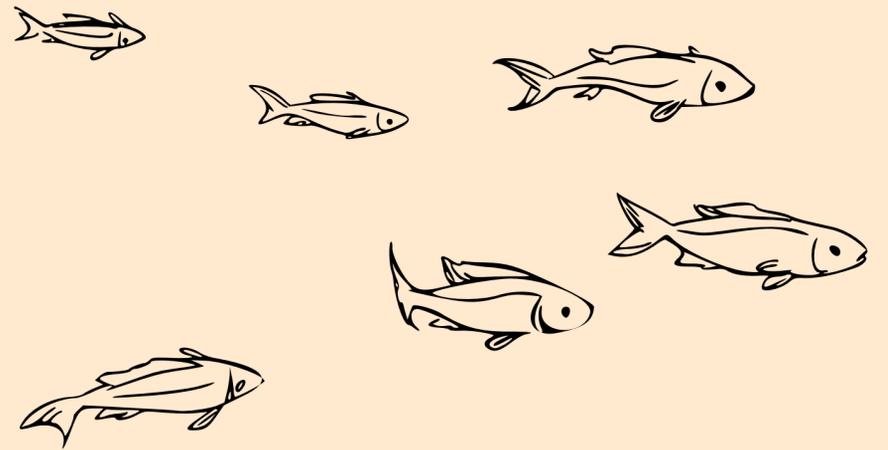
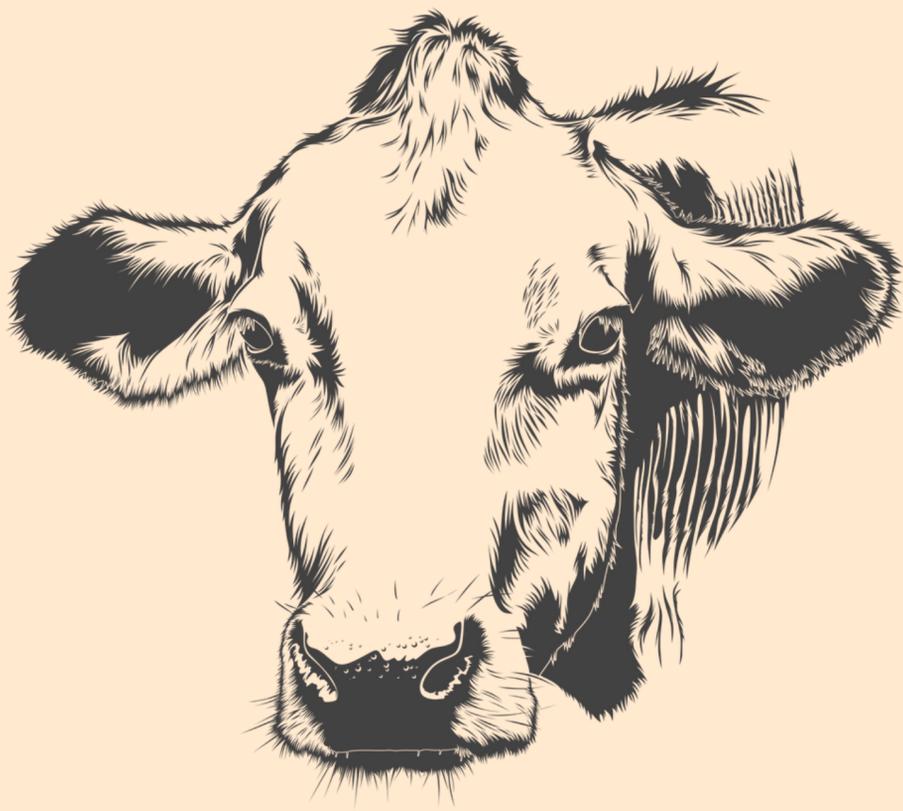
Team Name - The Green Beans

School - Jericho High School

ECOSTP'S COW-INSPIRED SEWAGE SYSTEM

A new and more efficient sewage treatment system has been created by ECOSTP following the structure of cow stomachs, aiming to create more sustainable sewage treatments.

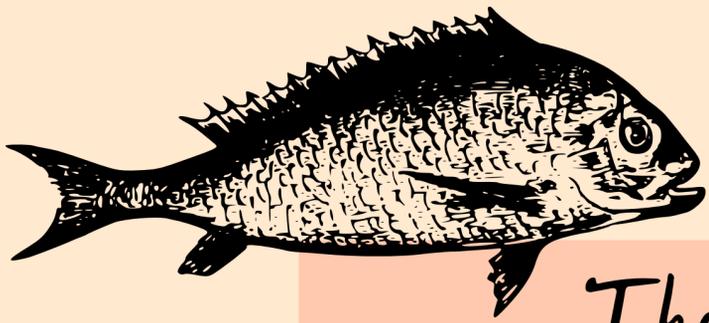
ECOSTP's innovative sewage system will allow for sewage to be treated in a more safe, eco-friendly, and sustainable way, benefiting remote or low-developed areas. ECOSTP's system is similar to the multi-chamber system in cows' stomachs where the cows' food is digested in four separate ways. An inspirational aspect of ECOSTP's sewage system is that the system requires no power to operate and doesn't include moving parts. Instead, gravity assists the flow of water containing human waste throughout the sewage chambers.



Benefits

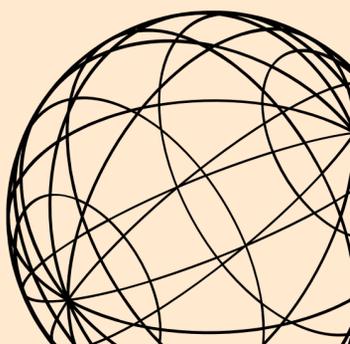
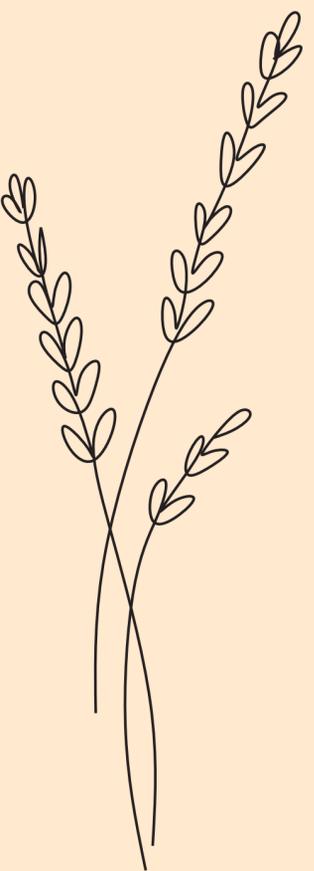
There are a number of benefits to ECOSTP's sewage chambers. The chambers require less maintenance, preserve open space areas, and operate at lower costs. The chambers also address UN Sustainable Development Goals by providing clean water and sanitation, sustain cities and communities, and respect organisms in oceans.





The Sewage Chambers and Biomimicry

The design of the sewage chambers are very interesting and unique. Forming any system that requires little to no energy is astounding to imagine, because much of our daily lives consists of objects that will work solely on electric energy. What's even more inspiring is how the creativity of nature can impact the way humans operate in society, and can improve their lives based on nature-made systems. My perspective of nature has greatly changed, as before learning about ECOSTP's work I could not have imagined such a complicated system already existing in nature before humans invented it themselves. I've realized that biomimicry can be applied to many parts of life, where we can reduce energy spending and save the environment, such as developing biomimicry-inspired cars or lightbulbs. Massive positive change can occur on Earth if we all incorporated biomimicry-developed technology in our lives.



ECOSTP Sewage System

