

North Oakland Ave.

•As a resident of an apartment complex on North Oakland Avenue, I have observed no on-site ways to recycle organic atrophy.

•Due to the large population in the surrounding N. Oakland area there is an ever increasing amount of recyclable waste that can be saved and converted into natural fertilizer and mulch.





THE PROJECT

•The objectives of the project is to create a lasting system that helps reduce the community's carbon footprint by returning organic waste as compost to the community.

placed two tumble-based compost bins in apartment complexes on North Oakland Avenue, and spread awareness by going door to door informing people of the new compost, as well as showing those who were interested how to use them.

•I built the box shaped compost bins with 2 recycled wooden pallets per bin, metal wiring, and chicken wire. First, Two pallets were disassembled and the wood panels were assembled into a 3 ft x 3 ft x 3 ft square bin. The leftover wood was then fixed on the top. This helped serve as an elevated base to allow for more aeration. Finally, in order to keep out small pests I used leftover chicken wire and straight wire to fashion a lid.



future.

What is Compost?

- Compositing is the recycling of organic matter as it decomposes to create a nutrient rich soil that can be put back into the environment
- Finished compost looks like soil, dark brown, and crumbles into finer particles.



Results

After building the bins and placing them out for use, there was immediate help in adding compostable materials. However, as the project has worn on, the compost has been used more sparingly. The most noticeable difference from the beginning and the end of the project is the size of what is dumped in the bins, in the beginning there were a lot more "little" food scraps. By this I mean crust off of bread and egg shells. Now there is much more material that has started to rot before whomever bought it could eat it. The ultimate goal of this project was to create lasting compost bins that will serve the residents of N. Oakland for the foreseeable





This poster was prepared in partial fulfillment of SUST 4103 Sustainability Capstone





- The bins themselves are small enough to move to different locations , potentially increasing accessibility.



SUSTAINABILITY

•Social System involved the social interactions and behavior towards an environmental project.

- Active participants had to learn how and why there is a need to compost.
- The bins are in active and easy to find locations in the apartment complexes.
- Community interest is key in order to leave the compost as a permanent asset for future tenants.

•Natural system involved the earth process of life and

- Healthy aeration of the compost helps increase the composting speed.
- Decomposition helps return organic material to the earth.

•Built system involved everything that was manually put together, and how it reacts with the natural world.

- The materials used to build this project was scrap wood, and cheap wiring. In total, this cost less than \$100 and would have been cheaper had I not purchased an electric screw driver and unnecessary eye gate latches.
- The design plans maximizes the wooden pallets life, as they would be thrown away if they were not picked for the bins.

Managed System involved assessing progress,

- need, and logistical life cycles of the compost bins.
 - The finished compost gives the community free fertilizer.

Acknowledgements

•Residents of Oakland Station, Oakland townhomes, and all other resident of N. Oakland Ave. for their support and waste.

Dr. Tahar Masadi for technical assistance.

Dr. Steve Boss for technical assistance.