



H.E.A.P  
Conservation Pilot Program  
Our Resources. Soil, Air, & Water. Our Responsibility.



# H.E.A.P. – Started with an idea in 2020

- Stands for: Horse Environmental Awareness Program
- What is it?
- A Pilot Program to help manage horse manure waste and help control water pollution from waste runoff.
- We knew what we wanted to do, but how? How would we manage and fund such a project?
- Partnering agencies and grants would be important.



# Local Stables - 3 River Systems and Watersheds

- Momentum began for this program in 2021.

- Tyler Mountain Stables – Poca River
- Sunday Stables – Coal River
- Lucas Farms – Elk River



Tyler Mountain



Sunday Stables



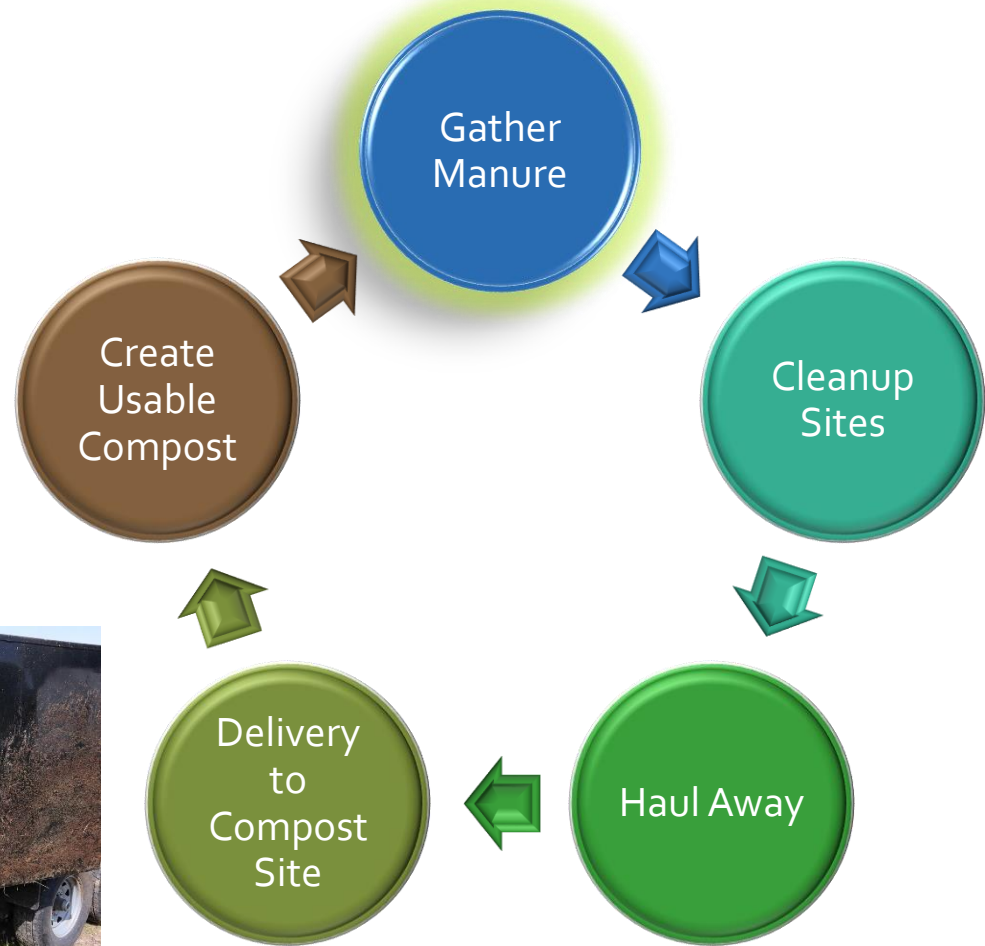
Lucas Farms

- Each of these locations were chosen for their proximity to water sources, need for remediation, and quantity of manure produced.
- Our hope is to put solid conservation practices in place for the betterment of our natural resources.

# Horse Manure to Compost – How are we doing it?

## Phase I – Gather Manure

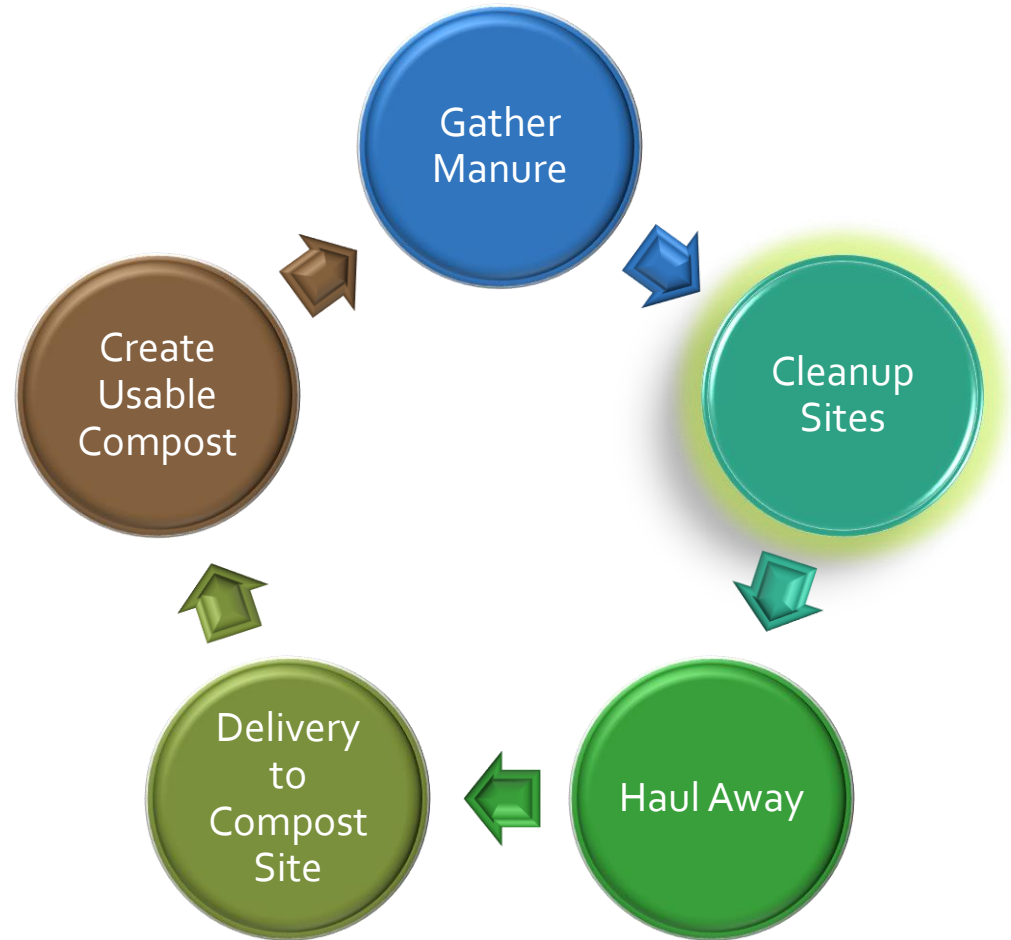
- Carefully chose a Horse Barn or site that needs remediation.
- Barns are provided a dump trailer to be used for manure collection.
- Manure is to be loaded directly to the trailer when stalls are cleaned.
- This is done so as to not continue to contaminate the soil with ground contact, or the water shed with runoff.
- Water samples are taken regularly through each process.



# Horse Manure to Compost – How are we doing it?

## Phase II – Cleanup Sites

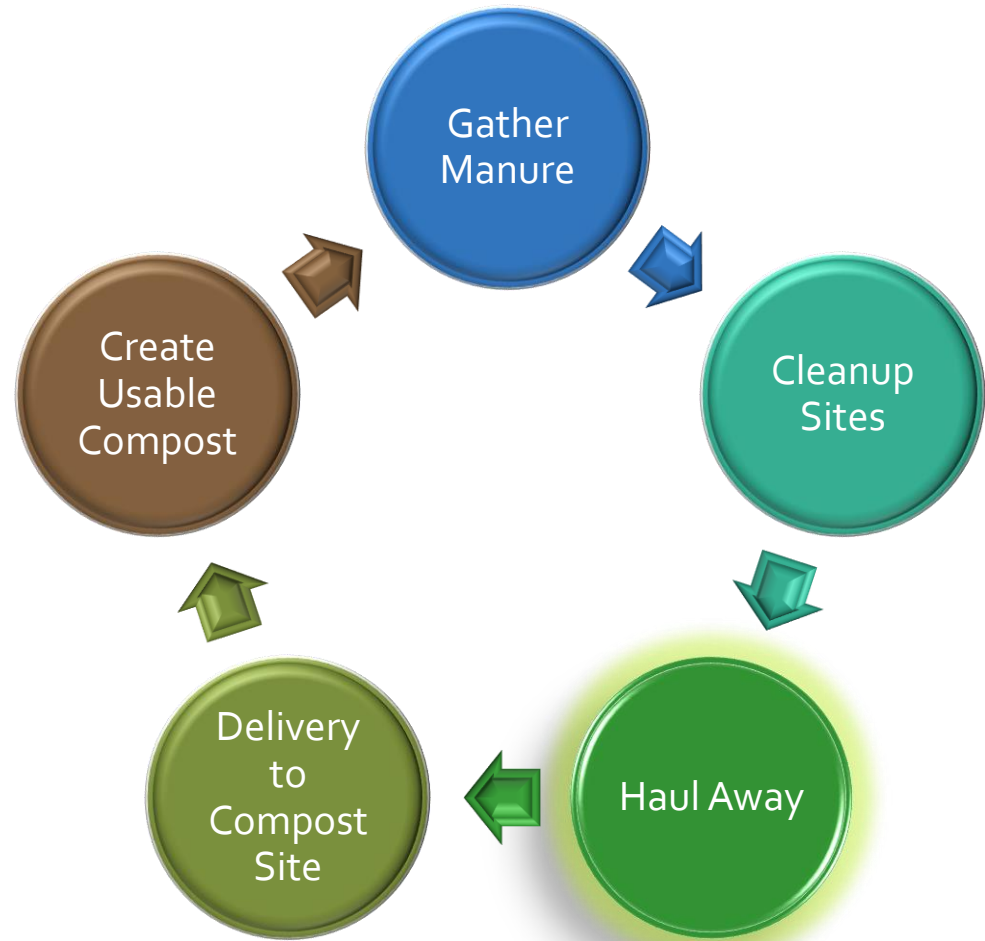
- We remediated the current chosen sites.
- Manure waste has been piled up and contaminating the watershed areas.
- The piled manure was removed to a location for composting.
- As part of our grant funding and MOA, we were able to hire a contractor to go in and remove the previous piles of waste from the site.
- Water samples were again taken.



# Horse Manure to Compost – How are we doing it?

## Phase III – Haul Away

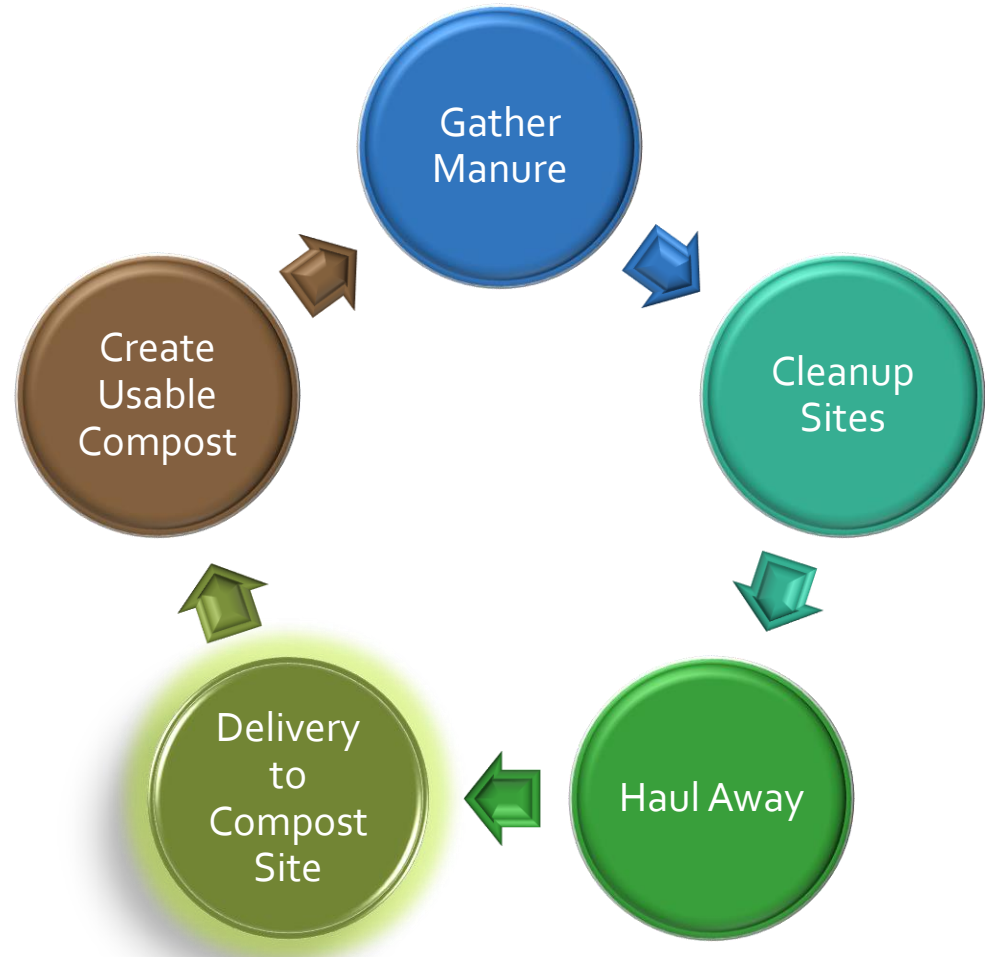
- Once the dump trailers are full they are hauled to the composting location.
- This phase was challenging due to the lack of driver availability and Compost Site unavailability.



# Horse Manure to Compost – How are we doing it?

## Phase IV - Delivery to Composting Site

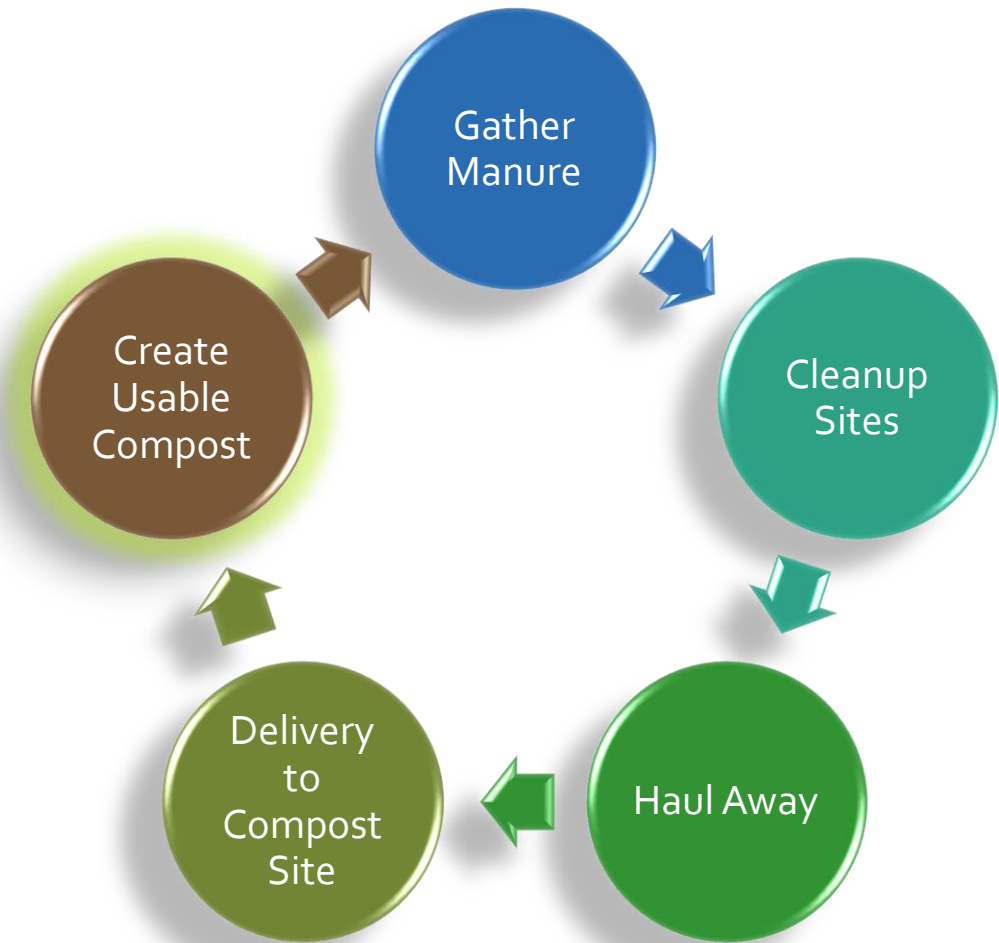
- Weekly, or as needed when full the dump trailers are hauled to a selected location for composting.
- This has proven to be the most challenging part of the process.
- In the beginning we did not yet have a dedicated site for dumping. The manure was hauled to individual farms and fields for spreading.
- As the program progressed, we partnered with a local campground that was supposed to manage the manure and turn it into compost for resale.
- Unfortunately, that partnership fell through, and we were again forced to change our plans.



# Horse Manure to Compost – How are we doing it?

## Phase V – Create Usable Compost

- Once the manure is delivered it must be turned and managed until it has become usable compost.
- The composting process is not difficult but needs to be managed and maintained properly.
- Once we had usable compost the hope was to then be able to use it for resale, funding special projects, community gardens, urban Ag or to provide a small stream of income for our partner site.
- The newly created compost would be certified by the Dept of Ag and distributed as desired.

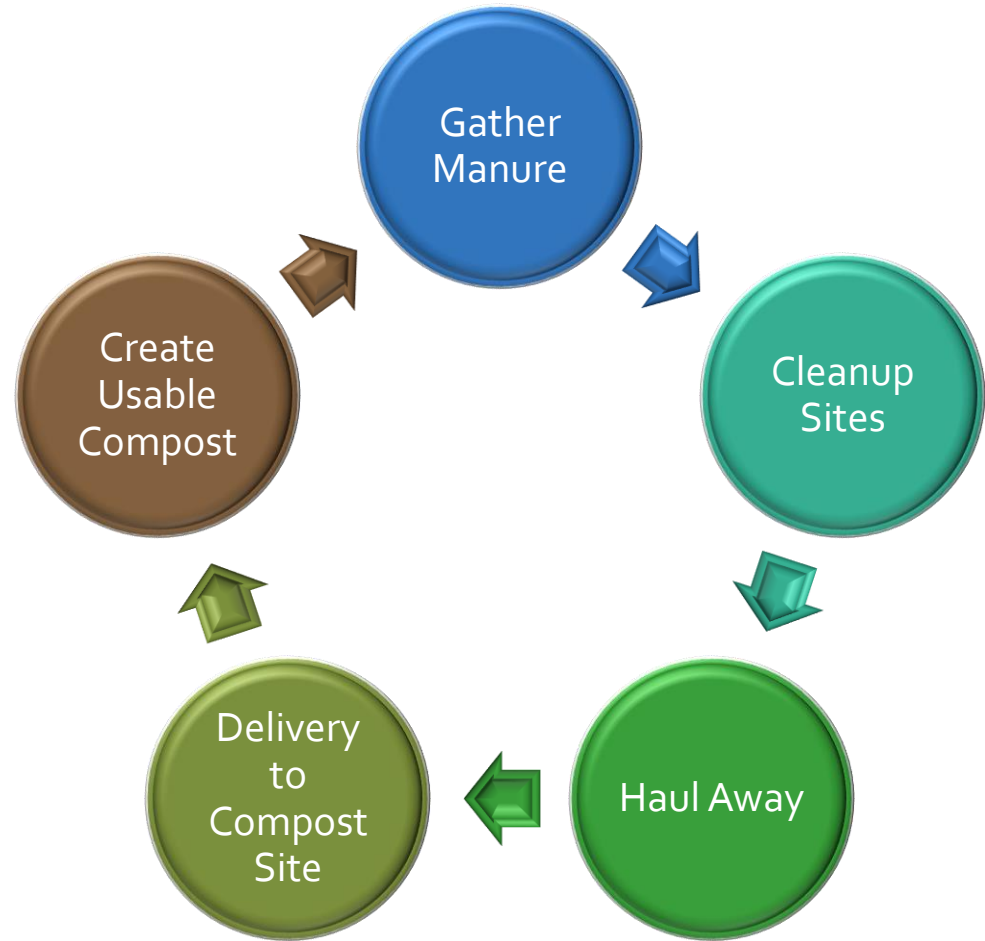




# Horse Manure to Compost – Where are we now?

## What's Next?

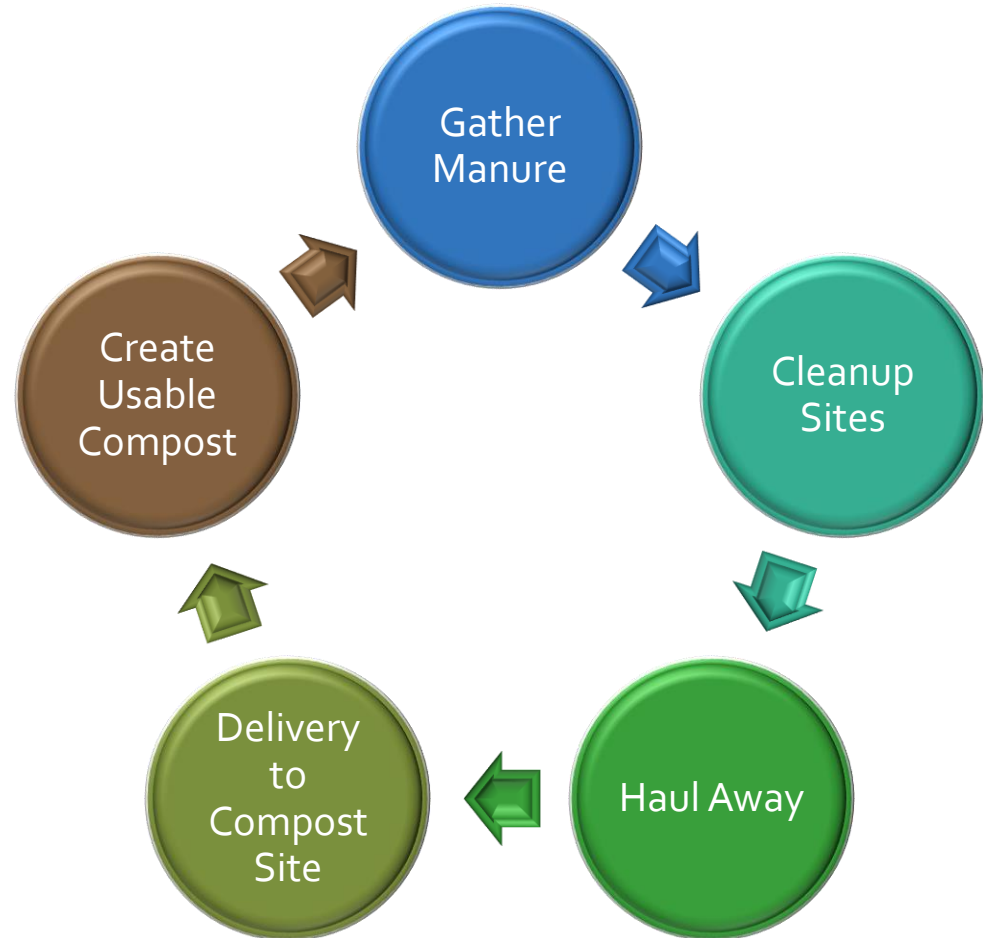
- We have shown that this program is possible and will work given the right partners and sites. The usable composted materials were able to be utilized this past spring, 2022.
- Our site partner hosted compost pick up days and was able to create a small income from donations.
- Unfortunately, we are not able to deliver composted material, it was pick up only.
- No bagging services were available, which is a hinderance for feasibility of movement. We hope to purchase a bagger for future use.
- In a turn of events, we were unable to continue our partnership with the local campground for composting. This led us to our current status, back to searching for a composting site.



# Horse Manure to Compost – Where are we now?

## Challenges –

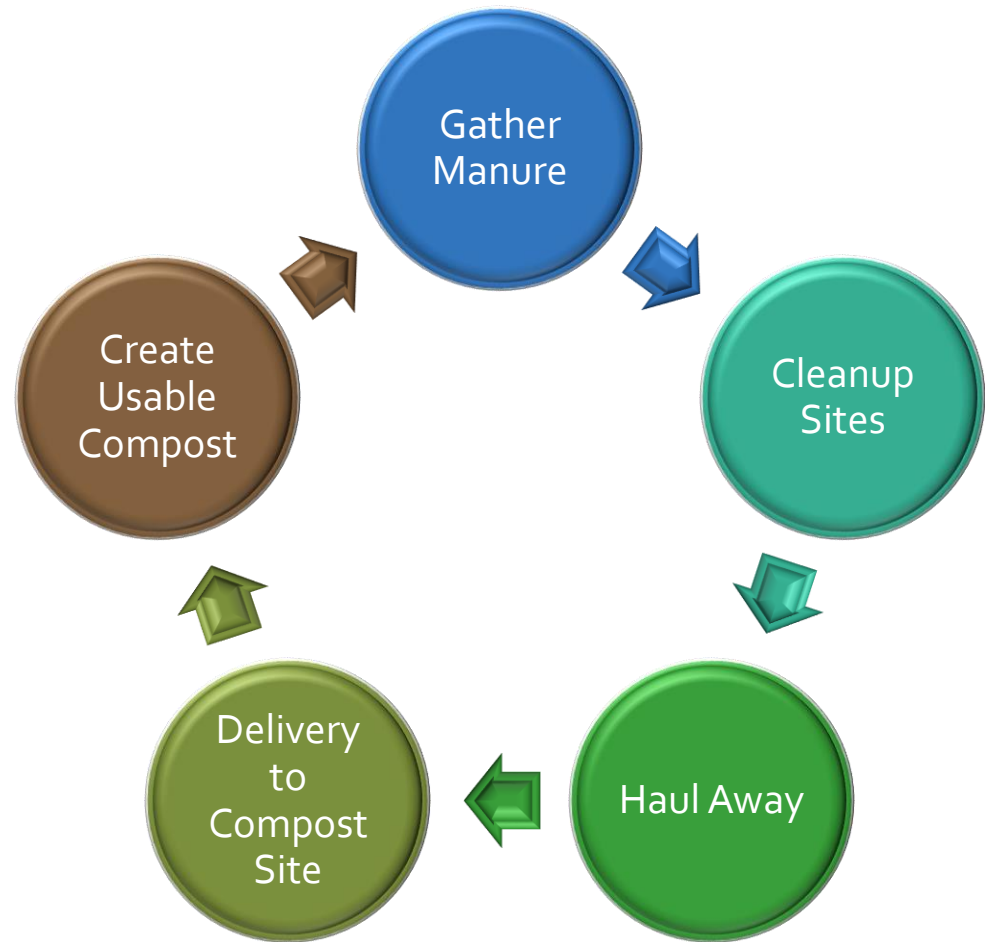
- Funding
- Horse barn selection
- Drivers for hauling
- Site selections for dumping
- Management of manure for composting
- Pick up and delivery of usable composted material

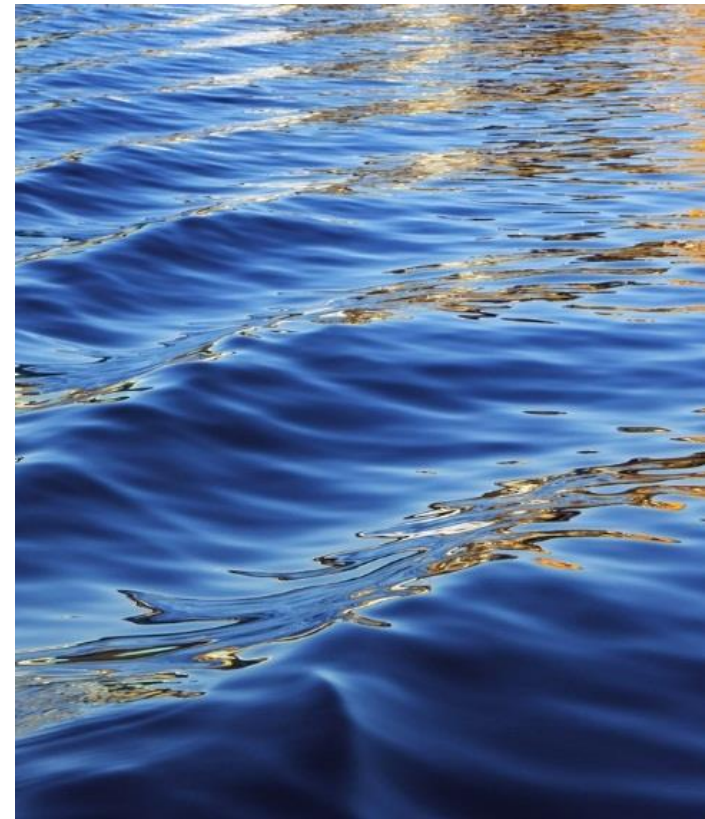


# Horse Manure to Compost – Where are we now?

## Successes –

- Funding – Partially achieved
- Horse barn selection – Successful cleanup
- Drivers for hauling – Slow, but steady
- Site selections for dumping – Work in progress
- Management of manure for composting – So far this is a work in progress
- Pick up and delivery of usable composted material – Continued work in progress. We are not able to facilitate the end result as we would desire presently.





# Continued Progress

What's Next for HEAP



# Questions?

Final Comments

