

## Gas City WWTP, Gas City Indiana



Gas City Indiana utilizes a 45' X 100' long geotextile dewatering bags to dewater approx 1,000,000 gallons of digested sludge per year. They fill and empty two bags per year, cutting open and land applying the solids in the spring and the fall when the farmer can get on the field. The bag is installed in a concrete bunker especially designed for the geotextile dewatering process.

Sludge is pumped from the digesters over to a small chemical building adjacent to the bunker.. A polymer mixing and injection system is located in the building along with the flocculator. The polymer solution is injected into the sludge line in front of the flocculator, it then is piped out to the pad.



This picture shows the polymer mixing system and the flocculator. The sludge comes in from the left side, the polymer is injected and the sludge and polymer solution are mixed with the flocculator. A sample valve allows the operator to check the flocculated sludge from time to time.



A new bag is rolled out over a drainage netting. This netting is reused over and over again and it helps the bag drain by keeping an air space between the concrete pad and the bottom of the bag.

Their bag has 3 fill ports. There are 3 standpipes with valves located along the side wall of the bunker. This allows the operator to switch back and forth between fill ports. This arrangement fills the bag more uniformly than it would if all the material was filled from the middle of the bag.





The bags are emptied two times a year, once in the spring and once in the fall. Each bag holds approx 500,000 gallons of digested sludge.



Land applying the sludge as a solid instead of a liquid saves many trips to the field. The price of fuel makes this a “no brainer” for Gas City. The savings are much needed by the city for other projects.