Westville WWTP, Westville, Indiana

The town of Westville, Indiana built this building to hold two roll offs and also keep there polymer mixing and injection manifold inside for all weather dewatering. The building is 30’ tall and the two overhead doors are 24’ tall. The roll offs can be picked up and loaded inside the building

Sludge is pumped from the digester over to the building with this sludge pump. It is located in the pump room on the left side of the building. The polymer mix system was also located in this room. Note the Port-A-Poly on the shelf right behind the sludge pump.

This picture shows the north digester and the building behind it. The sludge line from the digester over to the building is underground and the pump is located in the small room on the left side of the building.

The sludge is pumped over into the roll off staging area and the two valves located on the wall are used to regulate the sludge flow as needed. The sludge is pumped over to a mixing manifold that is kept between the two roll offs.

This plant uses a standard movable 4” mixing manifold to mix the flocculant with the sludge. They may in the future add an overhead sludge line with a steel or schd 80 PVC mixing manifold.

The building has overhead doors with a height of 22’ making it very easy to drop off the roll offs without height interference.

The operator has plenty of room between the roll offs to set up the mixing manifold. Future plans call for an overhead support to hold the fill tubes above the roll offs.

The sludge line is hard piped around the back wall. A cam lok fitting allows the operator to disconnect the sludge line easily. The polymer system is now located on the back wall for easy access.

At the back of each roll off is an angle iron stop to facilitate the positioning of the roll offs. The effluent flows from the roll off into a drain where it is returned to the head works by a gravity feed drain pipe.