

Case Study Spearman, Texas

The North Texas town of Spearman is known for its historic restored windmill collection, but it also is famous for the hot summers and constant wind. In the winter the fierce cold winds can compare to the coldest of the 48 states. The waste treatment plant needed a solution for sludge disposal.



The plant had a problem with the capacity of its 4 drying beds. Even the hot Texas summers were not enough to dry out the sludge fast enough to allow the plant to keep its sludge levels at the point necessary for proper operation.

Geotextile Sludge Dewatering was chosen as the solution for the problem. Each bed could hold (1) 30' X 60' dewatering bag. The capacity of the four drying beds would then be more than sufficient to dewater a full year's production of biosolids.



Drainage netting is spread out over the drying bed and the getextile bag rolled out over the netting.

Tires were used to keep the bag from blowing around before filling.

A Blue River Technologies sludge mixing manifold is used to mix the polymer solution with the sludge.

Proper flocculation is critical to the process and if properly utilized will greatly increase the dewatering rate.



A PVC fill tube is installed into the bag fill port and flocculated sludge is pumped into the bag. The bag begins to fill and clean water bleeds thru the bag and down into the sand drying bed. The clean water will not plug the fresh sand.



After a full year of operation the bag process has proven to be the proper solution for this plants sludge problem. The four beds can now be rotated easily to handle all of the sludge that this plant generates.

