Town of Mooreland Indiana
Container Bag Installation

In 2001 the small town of Mooreland, Indiana did an upgrade to the waste water treatment plant. Part of the upgrade included installing a Blue River Technologies geotextile sludge dewatering system. Prior to the upgrade the digested sludge was removed from the plant by pumping the 2% solids laden sludge into a tanker truck periodically. Problems with this method included the high cost of hauling mostly water to other treatment plants for dewatering. The larger plants in the area were increasing the charges for accepting this small towns sludge. They did have some permitted ground around the plant but again the cost of keeping up the required paper work and the labor required to spread and incorporate the sludge was eating into the small towns budget. A concrete pad was poured in the driveway where the truck loading standpipe was located. A grated drain and line was installed to return the effluent to the head works of the plant.

The waste activated digested sludge is pumped from the rectangular disgester with a submersible pump up to the standpipe located next to the new concrete dewatering pad.

The town purchased a new 30 yard roll off to hold the geotextile dewatering bag. To operate properly netting must be installed in the roll off to keep the bag from sealing itself off on the smooth sidewalls of the roll off.

A Blue River Technologies flocculator & stand is wheeled out and set up next to the roll off. A short hose connects the inlet up to the sludge standpipe. Another hose connects the discharge to the fill tube of the bag. A polymer hose is connected to the flocculator

Located approx 75’ from the dewatering pad, the plant lab and office is an ideal area to locate the Blue River Technologies Port-A-Poly polymer mixer. A 1” hose is used to attach the polymer mixer to the flocculator set up on the dewatering pad.

The Blue River Port-A-Poly can make down up to 8 gph of neat polymer into a polymer solution that will agglomerate the solids and separate the solids from the water producing a clean clear effluent and leaving the solids captured in the geotextile bag.

The Blue River Technologies Flocculator includes a 2” sampling port that allows the operator to check the condition of the flocked sludge that is being pumped into the bag to insure that the sludge is conditioned properly.

The polymer solution is pumped into the flocculator as the sludge is pumped thru. The polymer works its magic and the solids separate from the water. The water passes thru the bag and the solids are retained.

When the process is set up properly the water that drains out of the bag will be crystal clear, free from any solids and can be returned to the head works of the plant leaving the solids inside the geotextile bag ready for disposal.

When the bag is full it will hold approx 15 tons of dewatered solids. The solids will pass the paint filter test and the bag, with contents will be removed to the landfill, dumped out and the roll off returned to be fitted with a new bag and ready to go again.