

# Town of Rochester Indiana Water Treatment Lagoon Remediation Project



**Dredging sediment from small water treatment lagoon. Lagoon next to golf course not much extra land available for bed bags and town wanted sludge disposed of quickly.**



**Cristofulli cutter head dredge in 3" size will pump approx 250 to 300 gpm and will dredge up to 8' in depth. Cutterhead will cut thru veg and med heavy materials.**



**Generator is used to power dredge, dredge pumps up to tank located on the bank. Tank is agitated and then material is pumped over to the roll off staging area.**



**Pumping to a tank on the bank with agitation or recirculation sends a more homogenous solution to the process which improves flocculation.**



**For this project a gasoline powered trash pump is used to pump from the holding tank over to the roll off staging area.**



**Four 20 yard roll offs are staged approx 100 yds from the lagoon. A polymer mixer and flocculator is housed in a trailer over near the staging area to provide flocculant to the process.**



**Each roll off is set on plastic and a containment area with straw bales collects the effluent that flows from the bag. It is directed to a sump and pumped back.**



**Effluent that drains from the bag is collected in a dug sump and then pumped back over to the lagoon free from solids.**



**Polymer is made down inside the chemical trailer and sent over to a flocculator that mixes the polymer with the sludge prior to being pumped into the bags.**



**The flocculator causes the water and solids to separate agglomerating the solids so the water can flow easily from the containment bag without blinding.**



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**Proper control of the process will result in more and dryer sludge being retained in the bag for disposal resulting in less bag and chemical cost.**

