
Waste Water Clarifier & Bio-Film Case Study

In late July 2007 AlgaeControl Shenandoah approached AlgaeControl.US to discuss their ideas on how to implement the ultrasonic control in a waste water clarifier. Owner, B.J. Blessing recognized the huge available market for clarifiers. Since his career has focused on the municipality market place he was willing to tread where no AlgaeControl dealer had yet ventured. Chris Dye, the operator at Lebanon, Virginia documented the test results.

Since there was no eco-system involved, we decided to “upsized” the ultrasonic unit due to the clarifier turbidity in to produce as strong a signal as possible throughout the water.

The installation involved placing a rigid conduit on the inside sidewall of the clarifier and the ultrasonic unit was mounted to the rear of the skimmer trough underneath the path of the rotating arm. The rotating skimmer easily passes over the conduit due to a rubber scraper at the end of the skimmer arm.

Prior to installing the ultrasonic system, Chris typically cleaned his 3 clarifiers each week requiring 4-5 hours each. He now cleans all three clarifiers once a month taking about 1-2 hours each. A visual observation was made noting the improved clarity of the water inside the clarifier. The city also noticed a slight reduction in their chlorine demand before the discharge to the creek.

No Ultrasound – Cleaned Yesterday



With Ultrasound - Still Clean 30 days Later

