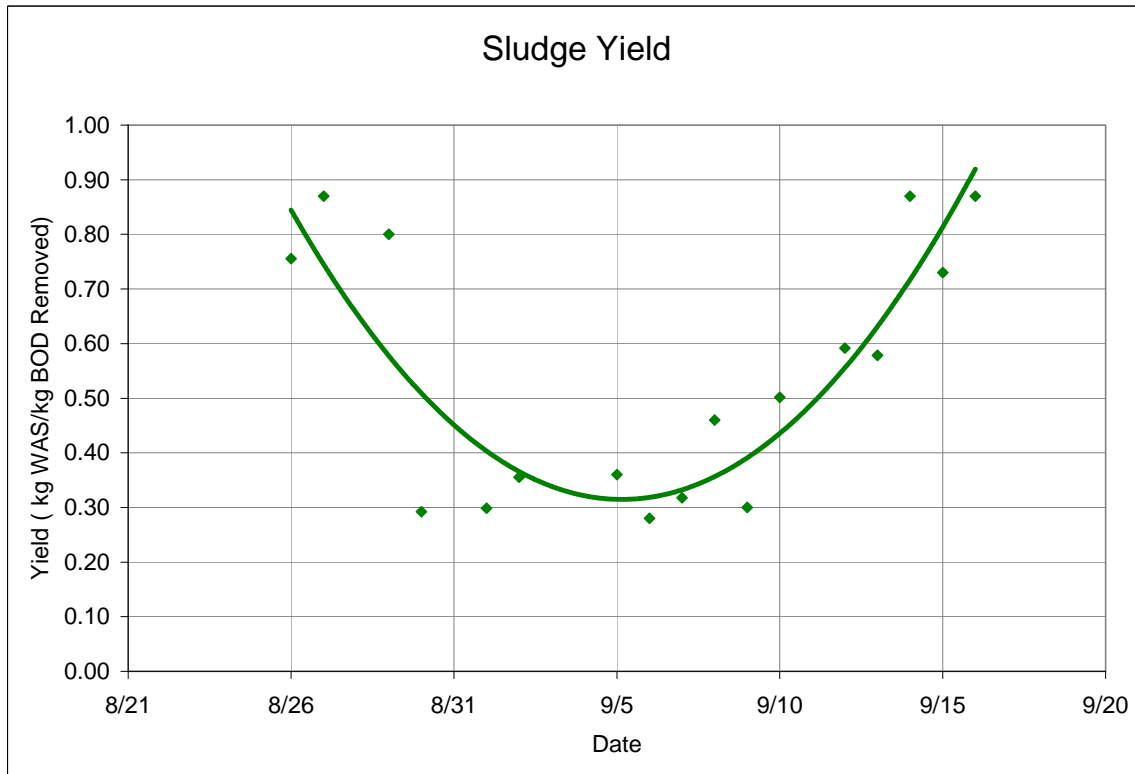


# Arkea® and Sludge Yield



The data charted above show Arkea® media's impact on sludge yield at a 15 MGD municipal, activated sludge plant. An "off-on-off" pilot test was run before permanent start-up.

Arkea® media were added to the plant on August 26 and yield began decreasing. Dosing ended on September 7 and yield began increasing to pre-test levels. The study ended on September 17 because of a 4-inch plus rainfall.

Several significant supporting observations were made.

- ✓ Incoming BOD ranged from 150 mg/L to 300 mg/L during the trial.
- ✓ There was no significant variation in the weekly solids inventory, so yield reductions were not an artifact.
- ✓ Further, no negative impact on ammonia, total nitrogen, or phosphate elimination was noted in daily lab analysis.

The "off-on-off" design is effective in evaluation of Arkea® media's effectiveness. As many as four consecutive cycles have been used. The results are replicable and predictable.