

## CASE STUDY

### LaGrange WTP—LaGrange, GA — SuperPulsator®

#### Plant Specs

|              |                          |
|--------------|--------------------------|
| Install Date | 1992                     |
| Equipment    | 1 unit<br>SuperPulsator® |
| Peak Flow    | 10MGD                    |
| Average Flow | 8 MGD                    |



The City of LaGrange WTP updated its clarifying technology in 1992 by installing the SuperPulsator®. This plant has kept, for redundancy, its older-technology clarifying units to work alongside the SuperPulsator®. What the LaGrange plant staff likes about its SuperPulsator® is its quick turnaround. They send water through both the SuperP and their over-under baffle and sedimentation basin clarifier, and like that the SuperP supplies clarified water so much more quickly. Mr. Brett Whaley, who has been with the plant for 10 years and is the Lead Operator, says “In 45 minutes, the water is through. It takes 4-6 hours for water to get through the over-under baffles.” He likes that they know if they have a problem so much more quickly with the SuperP, and can look down and be “able to see the floc and know whether there is a problem.” The SuperP can handle double the flow of the sedimentation basin, but is less than one third the footprint. Mr. David Ayers, who does maintenance at the plant, says there is “not nearly as much maintenance compared to flocculators.” As for repairs, they occasionally have to replace valves and actuators, but that is relatively rare. Every 3-4 months during warmer weather, they drain the SuperP basins and clean off the settling plates which takes about 8 hours. According to Water Superintendent, Mr. Keith Hester, there are “no real major repairs.” If they ever replaced their sedimentation basin Mr. Whaley says he would definitely want another SuperPulsator®.

| Water Data Average<br>May 2015 | Average Monthly Raw Water<br>May 2015 | Average Monthly Data<br>After SuperPulsator® |
|--------------------------------|---------------------------------------|--|
| Turbidity (NTU)                | 9.85                                  | 0.29   |
| Iron (mg/l)                    | 0.32                                  | 0.006  |
| Mn (mg/l)                      | 0.22                                  | 0.005  |