

Case History 27—Municipal Ammonia Removal

**Town of Crawford, MS,
upgrades treatment with
new Bio²Bloc® System !**



The Town of Crawford, MS, operates a wastewater treatment plant designed to treat a flow of 120,000 GPD. To improve treatment, a decision was made to “recycle” an abandoned sand filter, converting it to an extended aeration basin, fitted with 4 Bio²Bloc units to polish ammonia and BOD, and improve settleability of solids. The project was installed in April 2006. Within several weeks of installation, the Bio²Bloc units were delivering treatment beyond expectations.....

Influent Ammonia: 18 mg / L
Effluent Ammonia: < 0.1 mg/L

Influent BOD: 108 mg/L
Effluent BOD: 3 mg/L

Influent TSS: 130 mg/L
Effluent TSS: 11 mg/L

At an installed cost of less than \$50,000, this modest investment in Bio²Bloc's insures that the town stays well under effluent permit limits for years to come. Project sold by Gulf States Engineering.

Consulting Engineers: *Glenn Engineering, Inc., Laurel, MS*



Four new Bio²Bloc units were installed in this “recycled” sand filter to improve the removal of ammonia, BOD, and TSS.



Patented “Dual Diffusion” technology: shore-mounted controls for easy back-flushing whenever necessary.



LOW Air Requirement: 60 SCFM