



CLIENT: Municipal
LOCATION: Mississippi
APPLICATION: BTP
PRODUCT: LemTec™ Biological Treatment Process

BACKGROUND

Our client was a municipality located in a newly created Industrial Park in Northern Mississippi, 15 miles SW of Tupelo. The area is claimed to be the furniture capital of the United States with Ashley furniture as one of the areas largest employers. The site was designed to accommodate future growth. This is the first



LemTec BTP installation in Mississippi. Conventional treatment was considered, but was found to be prohibitively expensive. Lemna Technologies was requested to provide an economical solution.

PROJECT INFORMATION

Critical to design, the system had to be flexible to fluctuating flows, BOD and TSS without adversely affecting treatment. Accommodation for future growth of the Industrial Park, electrical consumption, low maintenance, versatility and projected system performance were the criteria for the design.

LEMTEC™ SOLUTION

A LemTec Modular Insulated Cover was installed on the aeration pond to maintain water temperature. A reverse-miter baffle system was also installed in this pond

for creation of three separate partial mix cells. A LemTec Modular Cover was also installed on the settling lagoon to create a quiescent settling environment and prevent algae growth. The final step in the process was a low maintenance, attached growth media system consisting of six LPR cubes that simultaneously reduces BOD and ammonia.

The civil construction phase required the construction of the aeration, settling lagoons and a 4-sided concrete structure. Two 15-hp blowers provided aeration for the 0.075 MGD facility.

RESULTS

The installation of two lagoons with a combined area of 29,980 square feet consisted of two LemTec Modular Insulated Covers, 2 Lemna Hydraulic Baffles, 28 fine bubble diffusers and 6 polishing reactor media cubes. This equipment was assembled and installed in less than ten days. Both the contractor and engineer were extremely satisfied with the simplicity of operation and ease of installation. For more information, contact your Lemna Sales Representative.

For more information, please contact:

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