

CASE HISTORY

CLIENT: Municipality with Industrial Discharger

LOCATION: Sikeston, Missouri

APPLICATION: TSS

PRODUCT: LemTec™ Modular Cover System

BACKGROUND

This municipal client had an existing wastewater treatment facility utilizing pond-based technologies. However, due to the long detention time in the existing polishing ponds, algae growth resulted which resulted in elevated suspended solids levels in the final effluent.



PROJECT INFORMATION

This wastewater treatment facility consisted of several aerated cells followed by settling ponds. The design flow for this facility is 0.4 MGD with an influent BOD of 3,050 mg/l. The effluent requirements for this system are 30 mg/l of BOD and 30 mg/l of total suspended solids (TSS).

LEMTEC™ SOLUTION

Lemna designed a solution that utilizes the LemTec cover to prevent sunlight from stimulating the growth of algae. The added advantage that the LemTec cover provides is the elimination of the wind and wave action from the surface of the ponds. This elimination of wind and wave action provided very quiescent conditions that are ideal for the settling of solids from the wastewater.

RESULTS

The results of Lemna's modifications to this facility have been very successful. Since the improvements have been implemented, this facility has been routinely achieving effluent suspended solids values in the single digits.

For more information, please contact:

Agata Polanska
Marketing Coordinator
Lemna Technologies, Inc.
2445 Park Avenue
Minneapolis, MN 55404
Phone: (612) 253-2002
Fax: (612) 253-2003
E-mail: techsales@lemna.com
www.lemnatechnologies.com