

CASE STUDY

AQUATRON™ / WASTE & SLUDGE REDUCER™ STUDY

Nutrient and Phosphorus Reduction in a 1.5 Surface Acre Pond
Platte River Power Authority
Headquarters Pond, Fort Collins, Colorado
Study Period - June 18, 1996 to September 3, 1996

Platte River Power Authority's Headquarters' pond is a highly eutrophic urban pond with a surface area of 1.5 acres and an average depth of 8 feet. The pond experiences excessive filamentous algae growth due to ortho-phosphorus levels as high as 1.90 mg/1.

Three applications of AquaTron™ and Waste & Sludge Reducer™ microbials were added to the pond during the summer months (See Table 1). At the beginning of the study the total surface area of the pond was covered with filamentous green algae.

At the conclusion of the study the surface of the pond was totally free of algae with clear water conditions. The ortho-phosphorus level was reduced from 1.9 mg/1 to 0.17 mg/1. Overall phosphorus was reduced by a magnitude of 11.17 times at studies end.

TABLE 1.

*Microbial Treatment Application for Platte River Power Authority Headquarters Pond
Pond volume 3,000,000 gallons*

Date	AquaTron™	Waste & Sludge Reducer™ Pounds Applied
7/23/96	5	5
8/6/96	2.5	2.5
8/20/96	2.5	2.5

Notations for Headquarters Pond Water Data:

Data analyzed by Colorado State University (CSU) as a comparison check to Platte River Power Authority's own chemical laboratory. Mr. Rod Morris, who completed water quality tests during the study period, is a certified chemist for Platte River Power Authority.

