

## ROTTERDAM ZOO POND SOLIDS CONTROL

**SUBJECT:**

Rapid pond cleaning in anticipation of the zoo's 150th anniversary celebration and Royal visit.

**PRODUCT APPLIED:** MicroAktiv®-AL3 Pond & Lake Cleaner

**POND DIMENSIONS:**

Depth: 1.8 meters, Width: 5 meters, Length: 170 meters.

Total volume: 765 m<sup>3</sup>



The pond served as a natural barrier for the gorilla island in the Zoo.

**OBJECTIVE:**

To clean the pond of solids rapidly in anticipation of planned visit by dignitaries for the 150<sup>th</sup> anniversary celebration for the zoo.

**PROGRAM:**

The solids were examined to ascertain their nature. Test kits were used to determine the water chemistry. MicroAktiv®-AL3 Pond and Lake Cleaner was applied as follows:

Day 1: 2.2 kg

Day 2: 2.2 kg

Day 15: 1.1 kg

Preventive application 650 grams/day on sunny days.

**WATER CHEMISTRY TEST RESULTS:**

Initial Ammonia nitrogen – 2 mg/l (approximate)

Initial Nitrate – 44 mg/l

Initial Phosphate - < 1 mg/l

Groundwater used as water supply for the pond containing significant iron concentrations which aids the algae growth.



Before Treatment



15 Days After Treatment

**RESULTS:**

By day 15 of the **MicroAktiv®-AL3** application program, the solids in the pond had disappeared from the surface of the pond and the water was clear. See the photos above.

**CONCLUSIONS:**

**MicroAktiv®-AL3** Pond and Lake Cleaner rapidly clarified the pond of surface and suspended solids in preparation for the anniversary celebration at the zoo. The product was easy to apply and economical, compared to the alternative treatments.

