

MICROPLEX® JS Jump-Starts Summer Camp Wastewater Treatment Plant

CASE STUDY

Location: Utah

Problem

Each year a summer camp in Utah becomes inundated with campers. The camp's wastewater treatment plant goes dormant during the winter months with only occasional flows. The biomass becomes very inactive and in years past became overloaded and upset when the high organic load arrived at the plant at the beginning of the camping season. After battling with the plant year after year to get it to accommodate the high spring load and function correctly, the operator looked for a way to jump-start the system.

Solution

After consulting with staff from Probiotic Solutions®, the operator decided to inoculate the system with the broad-spectrum microbial product MicroPlex® JS to quickly seed the plant for the higher loading.

When a treatment plant is started up for the first time or restarted after an upset or dormant period, the plant must be inoculated in order to process the incoming organic load and meet governmental permit regulations. Otherwise, the plant may take months to slowly develop and foster the growth of the needed microbiology that will efficiently consume the organic waste from municipal/residential/industrial wastewater. Issues with foaming, turbidity, settling, and even elevated BOD discharges are alleviated and eliminated when the restarted plant is inoculated with an appropriate microbial mix.

The small plant began dosing MicroPlex® JS a few days prior to the seasonal time of high camper use. The operator used a shock dose and then followed with a phase 1 and then a phase 2 dosing regimen: with each phase, the product amount was reduced and dosed for approximately 14 days for a total of 30 days. The dosing program was designed to match the flow and anticipated organic load. Currently the flow is 80,000 gallons per day. The flow has increased each year as the popularity of the camp increased. The operator anticipates the flow will continue to increase.



Results

Through use of MicroPlex® JS, the plant quickly acclimatized to the higher load and met the system's permit requirements. In addition, the operator is very happy with the results of the inoculation with MicroPlex® JS and how the plant continues to function during the camp's open season. He plans to continue to use MicroPlex® JS at the start of each year.

Conclusions

Probiotic Solutions® MicroPlex® JS is an effective microbial solution for jump-starting dormant wastewater treatment plants prior to periods of increased use.

Product Information

Probiotic Solutions® MicroPlex® JS is a concentrated microbial product that is shipped as a two-part solution that is mixed with water prior to administration. The mix is added into the influent line to inoculate the system and feed on a daily basis for 30 days. Shock doses are added at the commencement of the inoculation period. For more information, go to www.probiotic.com.