Massachusetts Water Resources Authority
Deer Island Treatment Plant Performance
April 2007

TSS Monthly Avg, mg/L — TSS Max Weekly Avg, mg/L — TSS Monthly Avg Limit — TSS Weekly Avg Limit

In April, both the weekly and monthly concentrations of TSS were below permit limits. TSS, or Total Suspended Solids in the effluent, is a measure of the amount of solids that remain suspended after treatment.

cBOD Monthly Avg, mg/L — cBOD Max Weekly Avg, mg/L — cBOD Monthly Avg Limit — cBOD Weekly Avg Limit

In April, both the weekly and monthly concentrations of cBOD were well below permit limits. cBOD, or Carbonaceous Biochemical Oxygen Demand, is a measure of the amount of dissolved oxygen required for the decomposition of organic materials in the environment.

In April, all permit conditions were met. Fecal Coliform is an indicator of the presence of pathogens. The levels of these bacteria after disinfection show how effectively the plant is inactivating many forms of disease-causing microorganisms. There are four conditions in the permit that must be met: daily geomean; weekly geomean; 10% of all samples; and greater than three consecutive samples not to exceed 14,000 col/100mL.