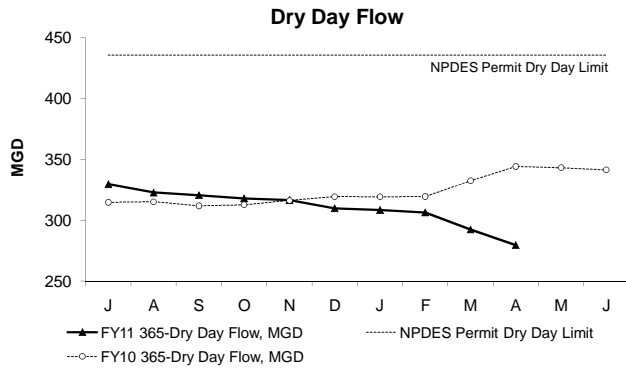
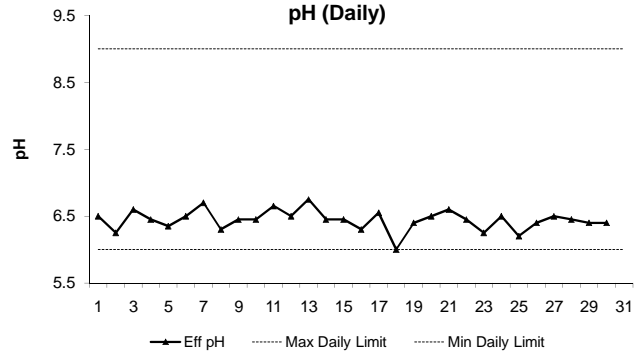


**Massachusetts Water Resources Authority
Deer Island Treatment Plant Performance
April 2011**

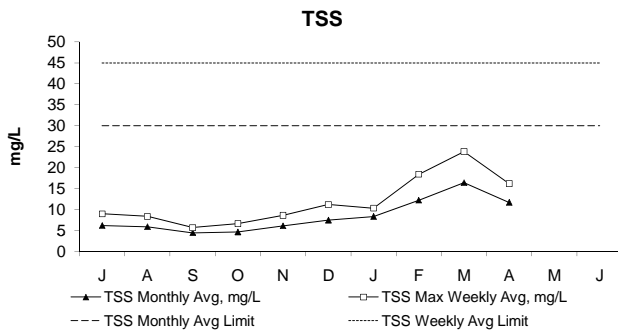


April's Dry Day Flow is the average of all dry day flows for the period from 5/1/2010 to 4/30/2011. The Dry Day Flow for April was 279.6 MGD, well below the permit limit of 436 MGD. This is the second straight month when the Dry Day Flow has been less than 300 MGD. Prior to this, the last time the Dry Day Flow fell below 300 MGD was back in August FY09. The Dry Day Flow last year at this time was much higher in comparison to this year because of the record-breaking plant flows caused by the historic storm events of March FY10 that kept the plant flow elevated even during dry weather. Dry Day Flow is calculated by averaging influent flows over the previous 365 days during dry weather.



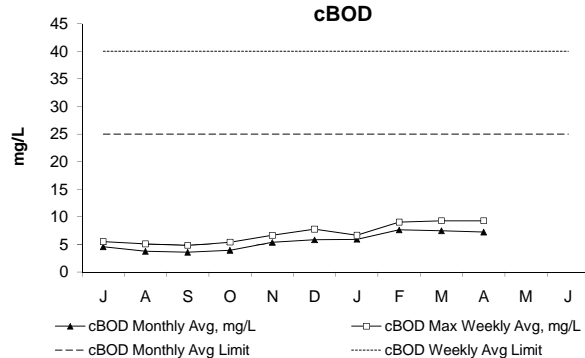
In April, the majority of the pH measurements were fairly typical for the season and within permit limits. The recorded pH reading for April 18 was slightly low at pH 6.0 but was within the permit's Minimum Daily Limit.

pH is a measure of the acidity or basicity of the effluent. Small fluctuations in pH do not have an adverse effect on marine environments. Because pure oxygen is used in the activated sludge reactors, the effluent pH tends to be at the lower range.



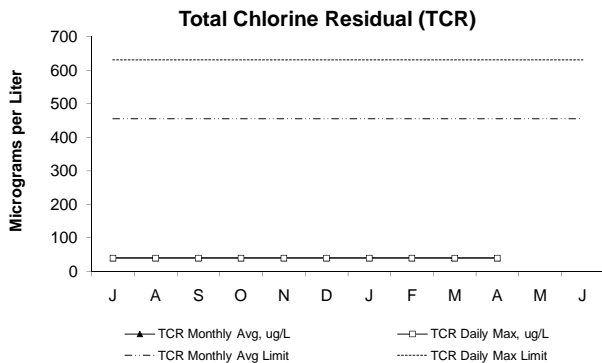
In April, both the weekly and monthly concentrations of TSS were below permit limits and within the expected ranges for the season. The TSS Max Weekly and Monthly Averages for April were lower than in the previous two (2) months as February and March had slightly higher averages due to poorer settling resulting from high plant flows as several heavy rainstorms passed through the region.

TSS, or Total Suspended Solids in the effluent, is a measure of the amount of solids that remain suspended after treatment.



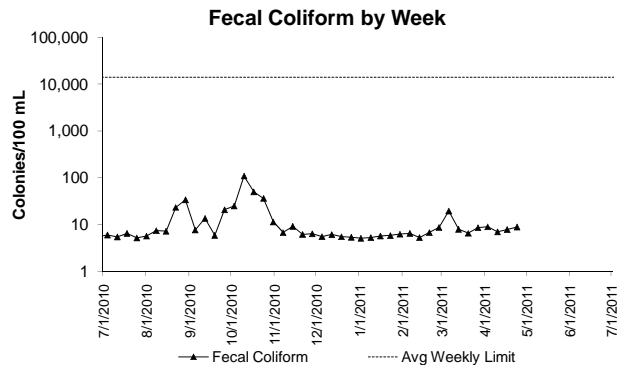
In April, both the weekly and monthly concentrations of cBOD were well below permit limits.

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, both the maximum daily and monthly concentrations of TCR were below permit limits.

TCR, or Total Chlorine Residual in the effluent, is a measure of the amount of chlorine that remains after the disinfection/dechlorination process. If the chlorine residual in the effluent is too high, it may threaten marine organisms.



In April, all permit conditions for Fecal Coliform 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 geometric mean; weekly geometric mean; 10% of all samples; and greater than three consecutive samples not to exceed 14,000 col/100mL.