

The Country Club at Castle Pines  
6400 Country Club Drive  
Castle Rock, CO 80104

Almost from the beginning when the ozone unit was installed, we started to see some positive results. I think one of the reasons we saw such an early response is due to the fact that we also inject Gypsum into our irrigation water. The combination of our ozone generator with the gypsum accelerated our results.

Within the first week I began to notice a dramatic increase in water infiltration. This was observed while hand watering localized dry spots on tees. Prior to the ozone unit, when water was applied to these localized dry spots it would puddle and just sit there. Now, with ozone, it puddles and then dives down into the soil right before your eyes.

The second thing we began to notice started to happen in the second week of use. At The Country Club we use hand-watering extensively. We hand water all play areas: greens, tees, fairways and roughs. Prior to our use of ozone, localized dry spots were watered and never showed any signs of improvement regardless of how many times a day it was watered. This was largely due to our poor quality of irrigation water. Our water source is effluent and it is high in both chlorides and sodium. In a typical year we will apply 555 lbs of sodium per acre due to the poor water quality. With the ozone unit in-place, these chronic hand water areas slowly started showing signs of getting better.

The third thing I began to notice was a gradual softening of our soil. Prior to ozone, our soil was so tight that even with a hammer you could not get a soil probe in the ground more than one to two inches (during typical summer conditions). Our fairways have anywhere between three-quarters to one inch of thatch on them, which makes them hard to get water penetration through. With ozone in place, four to six weeks out I started seeing the top one inch of soil beginning to soften up.

Sean K. McCue, Golf Course Superintendent