

MEMORANDUM

TO: Governing Board Members

FROM: Chip Merriam, Deputy Executive Director, Water Resources

DATE: February 19, 2008

SUBJECT: Approve Water Use Permit Modification and Renewal Application 071106-17 for the Village of Golf for the projected water use demands with a 20-year duration (Palm Beach County)

SUMMARY

Staff recommend approval of the modification and renewal of Water Use Permit 50-00612-W, for the Village of Golf to withdraw the projected maximum allocation of 19.59 million gallons per month (MGM) and 196 million gallons per year (MGY), which equates to an average of 0.54 million gallons per day (MGD) with a 20-year duration. The modification includes an increase of the annual allocation to the current permit from 196 MGY to a projected allocation of 220 MGY until 2013.

BACKGROUND

The Village of Golf supplies treated water to residential and commercial areas that include: Village of Golf (this permit), Delray Dunes (50-00851-W), Quail Ridge (50-00419-W), Indian Springs (50-00981-W) and Brookside (50-05069-W) which are located in unincorporated Palm Beach County. The Village of Golf owns and operates a water treatment plant (WTP) with a capacity of 1.5 million gallons per day (MGD) which was rebuilt recently (2003) from a lime softening process WTP to an ultrafiltration membrane softening WTP. The membranes have a typical efficiency between 80% and 85%. A portion of the increased demands is to account for the treatment system losses. The project utilizes groundwater from the Surficial aquifer system via three existing facilities.

MFL RECOVERY AND CERP ISSUES

In the previous permit, Staff utilized a groundwater analytical model which simulated a permitted maximum daily allocation of 0.91 MGD for 90 days and no recharge. The total allocation for a 90-day simulation period with a maximum day allocation of 0.91 MGD in the previous permit is about 16% higher than the projected allocation (69.12 MG) of the same period (90-day) for this permit application. The recommended Surficial aquifer system allocation for this modification is 220 MGY, which equates to an average of 0.6 MGD and a maximum per month of 22.01 MG. The area of influence for the increased withdrawals does not intercept an Everglades Waterbody and therefore, will not increase the withdrawal of water over the base condition water use pursuant to the Regional Water Availability Rule, Basis of Review, Section 3.2.1.E.

RECOMMENDATION

Staff recommends approval of the modification and renewal of Water Use Permit 50-00612-W.

Staff Contacts: Marjorie Craig, Director, Water Supply Department
(561) 682-2987