

# **Green Swamp Area of Critical State Concern- Impact Assessment Statement**

1. Flood plain development requirements under [Section 507](#) D/Section 2.132-E1, where applicable.

No floodplain exists on the Property.

2. Wetland development requirements under [Section 507](#) E., where applicable.

No wetlands exist on the Property.

3. Minimize the adverse impacts of development on resources of the Floridian Aquifer, wetlands, and flood detention areas.

No wetlands or floodplains exist on the Property. No adverse impacts are anticipated on the Floridian Aquifer as a result of the proposed land use change from PIX to RHX. Additionally, development of the Property is not anticipated to have a negative impact on the Floridian Aquifer.

4. Protect or improve the normal quantity, quality and flow of ground water and surface water which are necessary for the protection of resources of state and regional concern.

Stormwater runoff, associated with the development of the Property, will be collected and conveyed to stormwater ponds located on-site. The stormwater ponds will be designed and sized to meet regulatory requirements for both water quality and quantity. The ponds may discharge stormwater to offsite receiving waters / areas, subject to regulatory requirements. All off-site stormwater entering the Property from off-site contributions will be accommodated or diverted in accordance with applicable governing laws and regulations.

5. Protect or improve the water available for the aquifer recharge.

Protection of aquifer recharge area is required pursuant to Section 507 of the Land Development Code. The requested change in land use would not have an impact on aquifer recharge.

6. Protect or improve the functions of the Green Swamp Potentiometric High of the Floridan Aquifer.

No on-site water wells are anticipated to be utilized in the development of the Property. Further, reclaimed water would likely be utilized (if available) for irrigation purposes.

7. Protect or improve the normal supply of ground and surface water.

Potable water to service development of the Property would be provided by Polk County from off-site resources. Stormwater retention will address surface water runoff and off-site contributions to the Property. Reclaimed water would likely be utilized for irrigation.

8. Prevent further salt water intrusion into the Floridan Aquifer.

No salt water intrusion is anticipated from the requested change in land use from PIX to RHX.

9. Protect or improve existing ground and surface water quality.

See response 6 and 7 above. The Property is not in a wellfield protection district.

10. Protect or improve the water retention capabilities of wetlands.

No wetlands are located on the Property.

11. Protect or improve the biological filtering capabilities of wetlands.

No wetlands are located on the Property.

12. Protect or improve the natural flow regime of drainage basins.

The Property is within the Big Creek Reach and the natural flow and drainage of the basin would not be negatively impacted by the requested land use change. Development of the Property would be in accordance with all laws and rules of applicable governing agencies.

13. Protect or improve the design capacity of flood detention areas and the water management objectives of these areas through the maintenance of hydrologic characteristics of drainage basins

No flood detention areas naturally exist on the Property. Stormwater retention areas would be designed in accordance with all applicable laws and rules.