

Westgate Central Lake

This project proposes to excavate 6.85 acres for stormwater improvement to provide additional stormwater storage capacity for the area. The first planned stormwater improvement proposes the expansion of an existing dry detention area by converting the dry detention area into a wet retention pond, increasing the size and depth of the existing dry detention area to increase treatment volume, and reduce the grade of the side slopes to allow for the construction of a functional and aesthetic littoral area around the edge of the pond. The second planned stormwater improvement involves conveying collected stormwater runoff through a series of constructed culverts and inlets throughout the area. The third component of the project will incorporate an EcoArt element to assist with the pretreatment of the water and bring environmental awareness to the public. Since flooding has long been problematic for the Westgate Community, the public art component will provide a way to engage and help the community take ownership of the lake. Based on the existing conveyance system, runoff from the entire drainage sub-basin could be collected during small storm events and treated. Since the stormwater collected by this lake will discharge to the C-51 Canal and eventually the Lake Worth Lagoon, any pre-treatment will help the water quality downstream.

These improvements are anticipated to reduce pollutant loadings to the Intracoastal Waterway or the Lake Worth Lagoon. Both a water quality monitoring and education program will be implemented to gain results. A 50% littoral zone will be maintained around the perimeter of the pond and a bird sanctuary or other naturalistic element will serve as a focal point of this community feature. Funding from Disaster Recovery Initiative, Community Development Block Grant, FEMA, Lake Worth Lagoon, District II, CCRT are available for the construction of these remaining phases.



WESTGATE CENTRAL LAKE BOUNDARIES

11-21-08 (Westgate_Central_Lake_properties.mxd)

