

Exhibit 2. Martin Slough Restoration Design



Description

New tidegates to increase conveyance and restore limited tidal influence, construction and enlargement of tidal and freshwater wetlands to increase floodwater storage and provide enhanced fisheries and waterfowl habitat, and enlarged channel to increase floodwater and tide water conveyance through project area.

A & B (1.1 acres & 2.7 acres) - salt marsh plain 50ft wide paralleling slough channel.

C (3.0 acres) - Salt marsh with low and high elevation ponds connected to historic channel network and freshwater tributary.

D & E (0.8 acres & 1.2 acres) - Expanded fresh/brackish wetlands, containing deep open water, littoral benches and elevated outlet sill that minimizes salinity intrusion during wet season.

F (1.1 acres) - Backwater slough with island. Predominately freshwater with deep open water and littoral bench on inside of bend.

G (0.5 acres) - Off channel freshwater irrigation pond with seasonally installed salinity barrier. Deep open water with emergent vegetation along banks.

H (2.1 acres) - In-channel freshwater irrigation pond with seasonally installed salinity barrier. Deep open water with emergent vegetation along banks.

New channel dimensions - Trapezoidal shape with 1.5:1 (H:V) side slopes and bottom elevation ranges from -0.5 to 0.5 ft. Stable tidal channel geometry based on published relationships of diurnal tidal prism and slough channel dimensions.

Reach	Top Width (ft)	Length (ft)
1	60	1,084
2	50	2,123
3	37	996
4	35	590
5	30	706
6	27	1505
7	24	262

MARTIN SLOUGH ENHANCEMENT PROJECT

Draft Preliminary

July 2010