

**Summary of Finding for Estuary (Conservation Easement Area)
in Grand Harbor**

John B. Smith, March 20, 2019

1. Hydrology - The water flow from tidal flushing needs to be measured to determine if it is as designed. There was evidence of silting in a waterway within the conservation easement area near the Indian River. Some of the culverts connecting various portions of the conservation easement area appear to be partially blocked. All culverts should be checked. The flow within waterways needs to be measured to ensure the flow is as designed.
2. Vegetation - Brazilian pepper trees were found in a number of areas at the edges of the conservation easement area. These trees and other non-native plants probably need to be removed to comply with the FDEP permit.
3. Boundaries - It appears in some areas that the boundary of the conservation easement area is not as platted. One area looks landscaped rather than having estuarine plants. All boundaries should be surveyed.
4. Connections to Lakes - Connections between the conservation easement area and lakes or water impoundment areas are not well understood and it is uncertain whether all connections have been located. All connections need to be located and checked to determine if they work correctly.
5. Retaining Walls - The ownership and responsibility of maintenance for all retaining walls within or next to the conservation easement area need to be determined.