Shoreline Status

Fripp Island - Shoreline Committee

Darryl Zoeckler - June 9, 2021

THE BEACH

This presentation was to capture before and after photos of the beach area and any changes that occurred as a result of the king tide on May 24th. The king tide moved a lot of sand around, but the changes overall were minor. Two changes that occurred had impact enough to be mentioned.

Tidal pool - This aerial view of the tidal pool at the end of access #6 and #7 was taken at low tide BEFORE the May 24, 2021 King Tide event.

Tidal pool - This aerial view of the same tidal pool was taken at low tide AFTER the May 24, King Tide. The biggest change is that a good amount of sand was pushed into the pool by the waves, changing its ocean side border and reducing the size of the pool.

Tidal pool - This aerial view of the tidal pool at the end of access #2 was taken at low tide BEFORE the May 24, King Tide. My focus was on this "T" section because I was hoping the king tide would change the configuration and block off the tidal feed that leads to access #1B. It did not.

Attached shoal area - This view of the same tidal pool was taken at low tide AFTER the May 24, King Tide. There was very little change to the "T" area but the waves had broken through the sand at the end of the pool and currently fills it from this location at each high tide.

BEACH ACCESS # IB

Small tidal pool at the base of the access stairs.

Detail of access #1B - Overall view of the sand pattern and tidal pool. The sand changes constantly on this stretch of beach and I was hoping the May24th king tide would help eliminate the existence of this tidal pool. It did not.

Detail of access #1B - Aerial view of the access walkway taken during low tide. Also visible in this photo is the wrack line from the May 24th king tide at the revetment, as well as a typical high tide wrack line as it relates to the access walkway and stairs.

Detail of access #1B - Typical use of the access. A very popular access point in part because of the immediate access to the beach and handy when carrying beach gear. A common traffic pattern is to exit the access walkway and cross where the child in blue is attempting to cross.

BEACH ACCESS #4

Public / emergency access recently completed

Detail of access #4 - entrance - Posts and bollards in place. Ropes to be added connecting each post preventing the bypassing of the bollards by unauthorized vehicles.

Detail of access #4 - path - level, straight path all the way out to the beach allowing emergency vehicles access to the northern end of the beach.

Detail of access #4 - Access ends just short of the sand dunes. The light grey area is low area and subject to tidal flooding.

King tide activity - The May 24th king tide pushed sand ashore squeezing the tide pool which caused the water to spill into the low lying area at the end of access #4. The shaded yellow is as large as the overflow water got, but the whole dotted line area is currently susceptible to tidal flooding.

BEACH ACCESS # 15

Handicap access

Detail of access #15 - Overall view of the full length of the access.

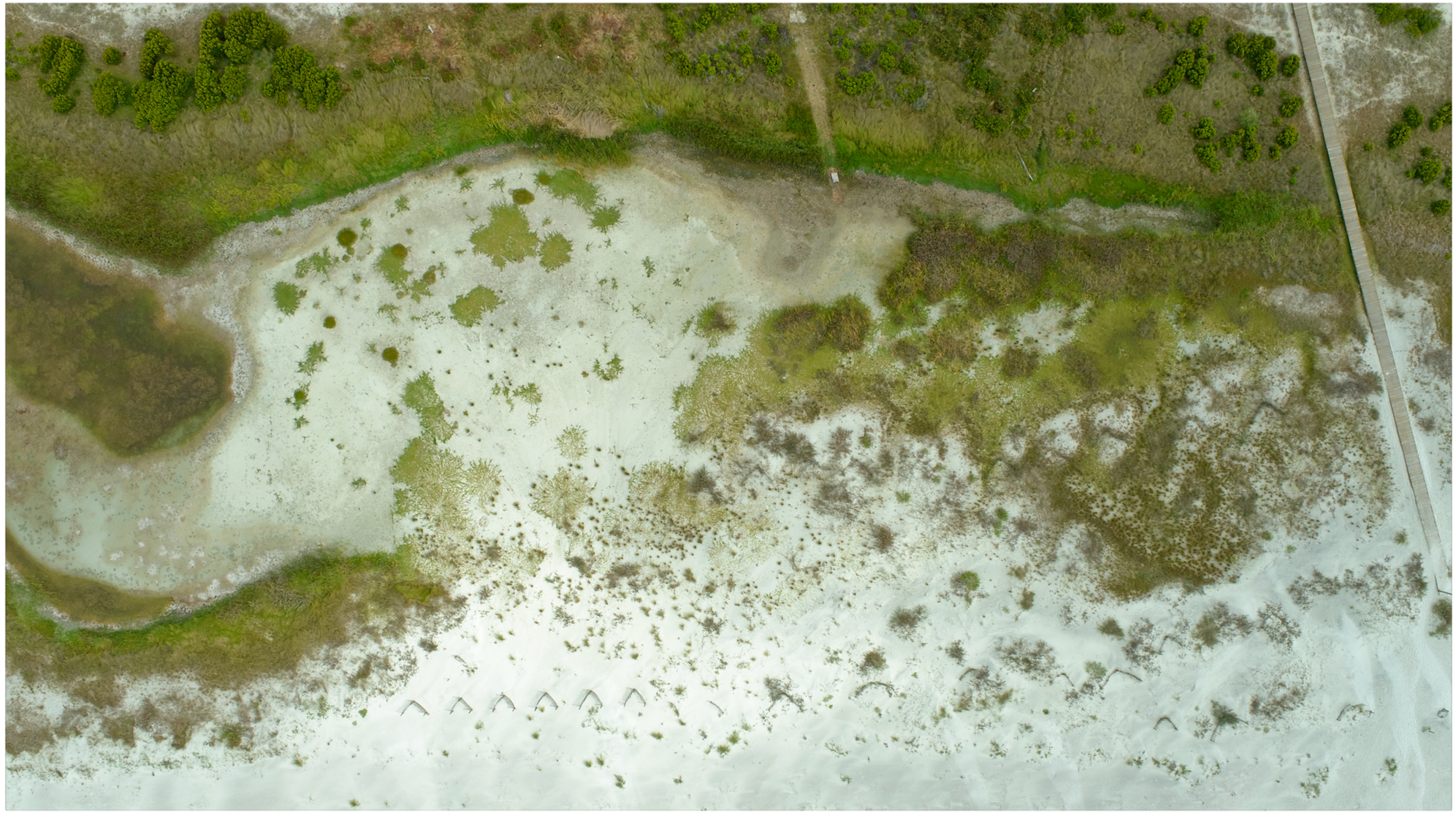
Detail of access #15 - An aerial view of the beach end of the access where traction problems have been occurring with handicap vehicles.

Detail of access #15 - Another view of the area where beach sand meets the access path. This area contains a loose granular surface that can cause traction problems for handicap vehicles.

TIDE POOL (#12 and #13)

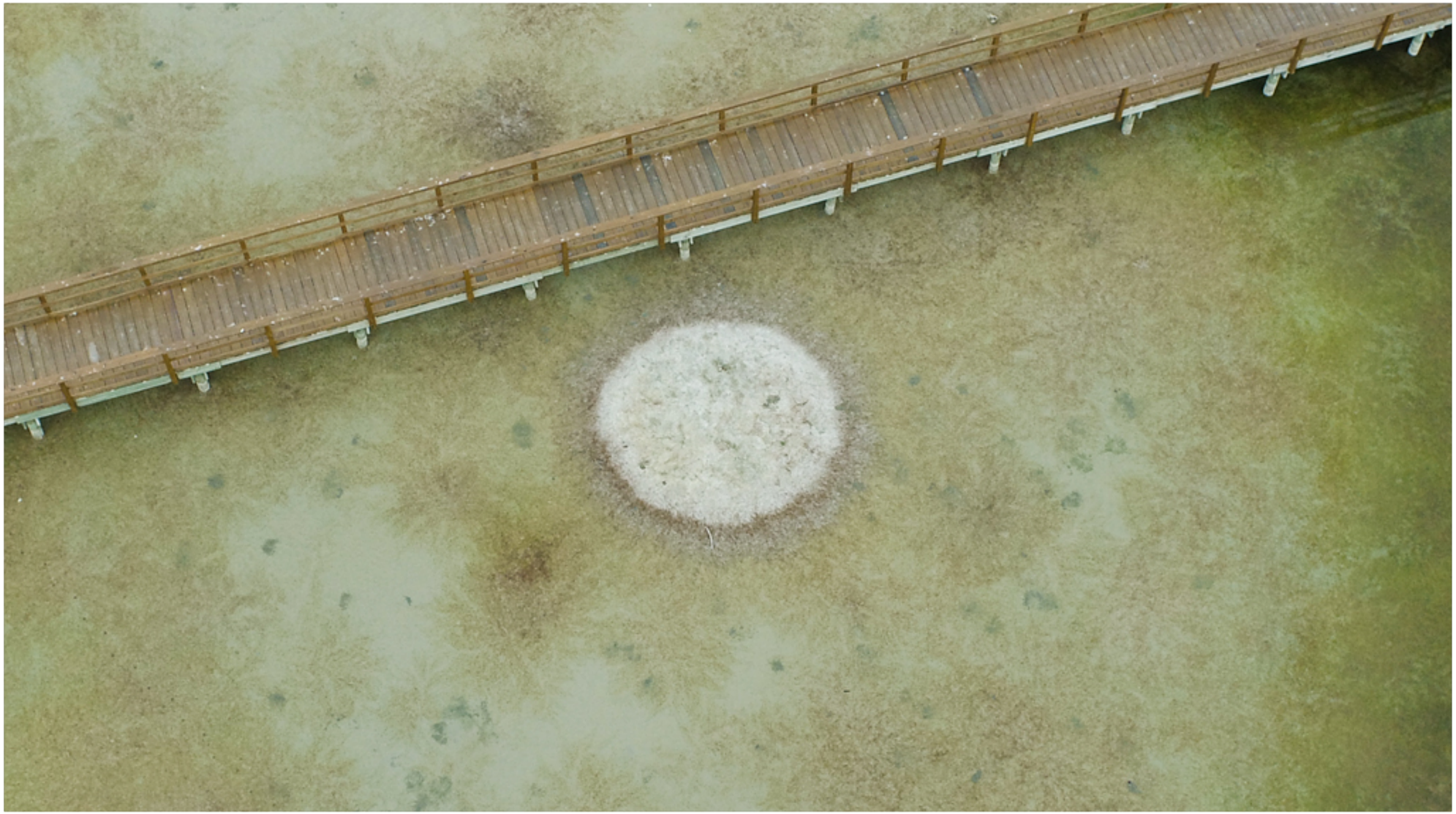
Current Status

Overview of tide pool at #12 & #13 - This tide pool has not had tidal activity in quite a while, the last tidal act caused a lot of sand to fill in the northern end of the pool. Vegetation is quickly taking over the dry areas of sand and algae is abundant in the remaining water.



Detail of tide pool at #12 & #13 - A view looking straight down over the northern side of the tide pool.
The sand that washed in from previous seasonal tide events is slowly being covered over with vegetation and is currently dry.

Detail of tide pool at #12 & #13 - A view looking straight down over access #12's walkway shows how much sand was washed in into the pool and also the current level of algae taking over the remaining water.



Detail of tide pool at #12 & #13 - A closeup view of the UFO landing site next to access #12's walkway.

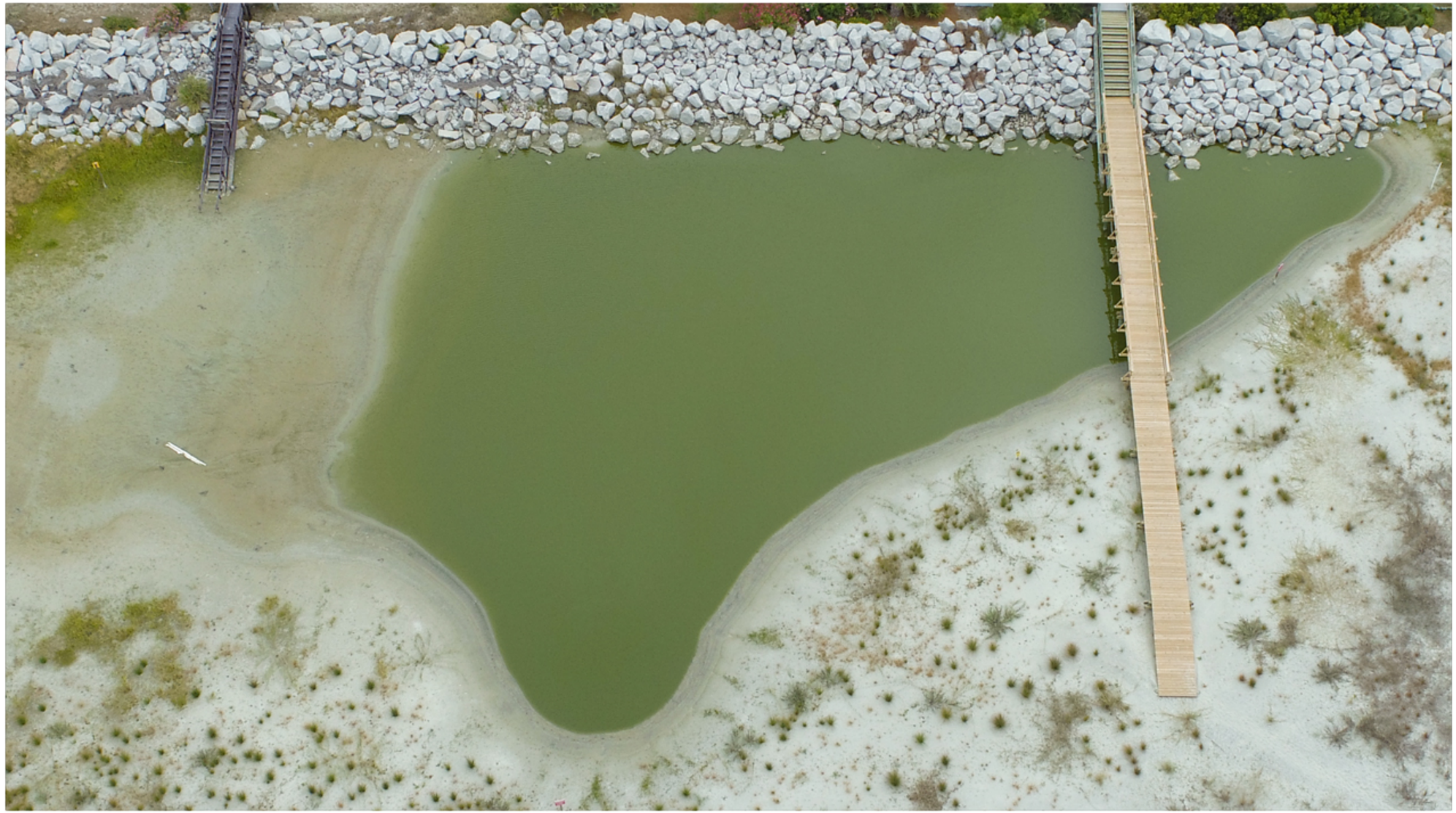
Detail of tide pool at #12 & #13 - A view looking straight down over the southern side of the tide pool, over access #13. Algae has almost covered the tide pool completely, leaving only a small area of exposed water.

Detail of tide pool at #12 & #13 - This tide pool is very shallow and currently cut off from tidal flow. At this point, the pool is probably more fresh water than salt as evidenced by the cattails abundant on the southern edge. And due to the lack of rain, this pool has shrunk in size considerably.

TIDE POOL (near # 1B)

Current Status

Overview of tidal pool near #1B - This tidal pool has not had tide activity in quite a while. The sunny days and lack of rain have caused a considerable reduction in the size of the pool.



Overview of tidal pool near #1B - Another view hovering above it shows the dramatic reduction in size and depth.

Overview of tidal pool near #1B - Although this pool is roughly half the size it was and several feet shallower, it still appears fairly deep, which makes one wonder if it will ever dry up completely or simply become the low spot for the surrounding area accumulating any and all runoff. This "deepness" might be a concern for the smaller pool at the base of #1B that seems to continue to "scoop" deeper than the beach around it.

THE SALT MARSH

Front of island, behind River Club

Salt marsh behind River Club - An overall view of the damaged areas including the entire salt marsh.

Salt marsh behind River Club - A view looking down over the damaged areas at the mouth of the salt marsh.

Salt marsh behind River Club - Vegetation has started to grow on the exposed clumps of mud showing the marsh still has a chance to repair itself. At the same time a note of reality, the old utility pipes now exposed were once buried several feet underground which shows how much material has been pushed back into the marsh by the wave action.

Salt marsh at Fripp Inlet - Another example of the vegetation making a comeback in the damaged area near the Mollura residence. But again, the reality of wave action is also visible and its destructive potential to erase all the positives quickly.

HUNTING ISLAND

The deteriorating south end of Hunting Island

Hunting Island - The deteriorating south end of Hunting Island continues to do the inevitable.

Hunting Island - Another view of the slow and steady devastation to the island.

Hunting Island - A slightly lower view of the slow and steady devastation to the island.

Hunting Island - The sand from Hunting Island continues to make its way down Fripp Inlet and out in front of Fripp Island.

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The aerial photographs used in this presentation were taken on May 21, June 4, and June 5, of 2021

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