

Water Control Structure Upgrades and Repairs – advisory committee presentation

WCS constructed in 2004 and it seemed like time to do an assessment from a few different perspectives:

- Functionality
- Safety
- Structural

Functional (meeting with managers to get 'wish list') – more flexibility in holding/releasing water and in operating structure

- Two way tide gates vs. one way
- Better boom system to keep debris out of the structure
- Explore screw gates instead of boards

Safety (JHAs and SAIF reports)

- We've been used to operating these in a particular way but when stepping back to review we realized we have some safety issues
- Confined space
- Trash rack installation
- Stop logs and boards can be difficult and time consuming to remove and install
- We realize that some of these issues could be solved by procedural changes vs. engineered changes

Structural (review by engineering firm)

- 10+ years old
- Nothing major found by KPFF, the engineering firm that did the structural review
- Railing failure
- Rust and pitting
- Minor concrete spalling
- Loose connection points

Pulling it all together

- Work with engineers from Ducks Unlimited to assess the 3 sources of info
- They will produce some design recommendations based on their assessments

- I'll be able to present some of these at a future meeting.
- Timeline –
 - Design recommendations from DU later this summer
 - Depending on how functional, safety and structural repairs mesh together I'd envision at most more minor changes being implemented this fall
 - Larger construction with dewatering may have to wait until next dry season due to permitting
 - I may be apologizing to you all later for a totally incorrect timeline