

(BS-0041) North Delacroix Marsh Creation and Terracing 30% Design Comments

1. What is the purpose of the Recon Area? Is it considered a potential additive alternate?

The purpose of establishing a Recon Area during the project's preliminary design was to identify and survey various potential marsh restoration site locations, thereby minimizing risk. The Recon Area could act as a strategic reserve for project expansion, to be used in instances of underbidding and/or additional funding sources are secured.

2. Was there any comparison between the CRMS stations and the USACE hardened gauge?

No, at the moment there was not a significant amount of data that overlaps with the CRMS stations.

3. Check number of boosters. 3 boosters in dredge mob estimator tab, but 2 boosters in Quantity Basis for Mob/Demob in Qty and Unit Cost Explanation tab.

The cost estimate spreadsheet has been updated to reflect 3 boosters.

4. On MCA-1, because you are using the tidal levee as part of your containment will you be increasing the number of gaps on the non-tidal levee side?

Yes, CPRA will optimize the number of weirs during construction and gaps post-construction on the eastern side of MCA-1, since there is limited area for placement on the tidal levee side.

5. Why are you building the terraces to a height of +4.5'?

The goal of the Earthen Terrace is to maintain a crown elevation 1 (one) foot above MHW during the life of the project. Eustis predicts 19 inches of settlement beneath each Earthen Terrace, which will begin at a depth of five feet. This settlement is projected to occur over each Terrace's 20-year design lifespan. The MHW in year 2047 is projected to be +1.7 ft. NAVD88 with sea-level rise. The estimated crown elevation of the Earthen Terrace in year 2047 is the following.

$$+4.5 \text{ ft. NAVD88} - 1.6 \text{ ft. (foundation settlement)} - 0.3 \text{ ft. (subsidence)} = +2.6 \text{ ft. NAVD88}$$

Given the current design elevation of +4.5 feet NAVD88, the highest point of each Terrace would be positioned one foot above MHW by the end of their 20-year design life.