

Delta Levee Conditions

Summary: A status of Delta levee conditions was transmitted to the DSC from the Department of Water Resources. This information includes levee conditions maps; both Delta-wide and on an island-by-island basis. Supporting analytical information describing assumptions and limitations of the data has also been provided.

Background

In order to assess Delta levee conditions, a graphical representation of basic Delta levee conditions is useful. A map indicating the levee conditions as they relate to existing standards and guidance is a simple method of providing a snapshot of existing conditions. In order to generate such a map, a survey was made of the levee topography for the Delta region by DWR in 2007. This survey was conducted using LiDAR (**L**ight **D**etection **A**nd **R**anging), which is an aerial topographic survey technology that provides a quick and efficient method for surveying terrain. The data generated from the LiDAR survey was then processed, in conjunction with levee standards and guidance, to develop maps depicting Delta levees and their relation to applicable standards and guidance.

The maps provided include two Delta-wide maps; one depicting those islands whose levees meet the HMP (Hazard Mitigation Plan) guidance criteria, and another depicting those islands whose levees meet the PL 84-99 (Public Law 84-99) standard. Each map also denotes the extent to which those islands meet or do not meet their respective levee criteria. Also included are individual island maps depicting levee condition status as well as levee construction status. The transmittal from DWR also included tabular summary data as well as assumptions and limitations of the data.

It is important to note that while the information provided gives a useful snapshot of topographic levee conditions, it does not constitute a comprehensive study of overall levee conditions. Geotechnical considerations are not considered by this assessment methodology.

Unfortunately, DWR staff are not available to present this information to the Council at this time, but it is anticipated that this material can be presented and discussed in further detail by DWR staff at an upcoming DSC meeting. For the purposes of this meeting, this information is being presented “as received” and does not represent the Delta Stewardship Council’s assessment and interpretation of Delta levee conditions.

List of Attachments

- Attachment 1: Memorandum; “*Status of Levee Heights for Delta Islands*”, January 19, 2012, Dave Mraz, DWR to Joe Grindstaff, DSC
- Attachment 2: Delta-Wide HMP Compliance Map
- Attachment 3: Delta-Wide PL84-99 Compliance Map
- Attachment 4: Detailed Classification Summary Table
- Attachment 5: Transmittal Document
- Attachment 6: Delta Levee Classification Analysis Assumptions and Limitations
- Attachment 7: Disclaimer

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