Paradise Cut Bypass Expansion Project

Presentation to San Joaquin Area Flood Control Agency

September 19, 2019



The Lower San Joaquin/South Delta is very vulnerable to flooding ...



1997 Manteca flood. Photo by Dale Kolke / California Department of Water Resources

Brief History of Paradise Cut Expansion idea



CVFP

Project Location and Conceptual Design





Looking South up the San Joaquin River. Photo by Daniel Nylen, American Rivers.

Continued Agriculture in the Expansion Area: Infrequent, planned flooding better than...



Comparison:

Yolo Bypass inundation occurs in 2/3 of all years (~67% probability)

Paradise Cut expansion would occur 1/12 of all years (<10% probability)

Yolo Bypass. Planned flood bypass on agricultural fields. Photo on Water Education Foundation website: http://www.watereducation.org/aquapedia/flood-management Continued Agriculture in the Expansion Area: Infrequent, planned flooding better than... ...less frequent, unplanned flooding



ISSUES: Sand splay Erosion Poor Drainage Salinity Unpredictable

Stage Reduction San Joaquin River

Design Flood (~50 year event)



Stage Reduction San Joaquin River

1997 event (~100 year event)











Next Steps

Delta Conservancy grant awarded in May 2019 Grant term ~ 2 years starting January 2020

Focused on addressing impacts on Old River and Grant Line Canal

- Compile existing data, identify data gaps, recommend studies needed
- Develop mitigation strategy to minimize negative hydraulic impacts
- Design and implement durable local engagement structure

Next steps

- Phase 1 conceptual planning COMPLETE
- Phase 2 address downstream impacts current
- Phase 3 easement acquisition
- Phase 4 design, permitting, compliance
- Phase 5 construction, monitoring



Thank You!



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