

American River Common Features, and West Sacramento, California General Reevaluation Reports

Civil Works Review Board at HQUSACE

Presented by:

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Project Manager

Sacramento District, USACE

18 December 2015



West Sacramento, California



American River Common Features, California



Flood Risk Management for the Cities of Sacramento and West Sacramento

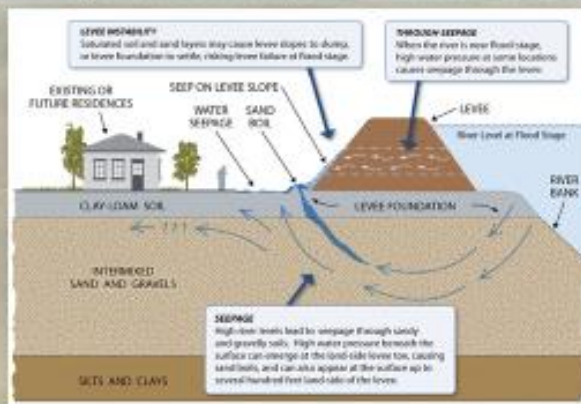


Problems:

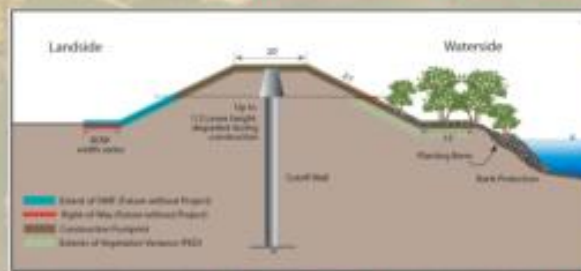
- Life safety risk due to high probability of flooding
- Consequences of flooding are catastrophic

Strategy:

- Improving existing levees is the first increment in reducing flood risk
- No larger system alternatives lowered the water surface elevation enough to negate the need to improve the levees to address the geotechnical concerns
- Without improvements to the existing levee structures the primary problem is not solved



Typical Levee Seepage and Stability Problems



Typical Levee Improvement Cross Section



U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT



U.S. Army Corps of Engineers



THE RECOMMENDED PLANS



Recommended Plans

Features	American River Common Features	West Sacramento
Cutoff walls	13 miles	16 miles
Bank protection	21 miles	23.5 miles
Levee stabilization	5 miles	4.5 miles
Levee raises	5 miles	N/A
Widen Sacramento Weir and Bypass	1500 feet	N/A
Setback levee	N/A	3.8 miles
Levee improvements to Deep Water Ship Channel	N/A	17 miles
Reduces Risk	500,000 people	48,000 people
	125,000 structures	18,000 structures
	\$62 billion	\$ 4.7 billion



Economic Summary

Oct 15 Price Levels, 3.125% Discount Rate (\$1000s)

Recommended Plan	ARCF (LPP)	WS (NED)
Investment Costs:		
Flood Risk Management First Costs	\$1,557,513	\$1,182,889
Interest During Construction	\$309,230	\$442,752
Total	\$1,866,743	\$1,625,641
Average Annual Cost		
Interest and Amortization	\$74,283	\$64,689
OMRR&R	\$494	\$106
Total	\$74,777	\$64,795
Average Annual Benefits	\$344,695	\$210,570
Net Annual Flood Risk Management Benefits	\$269,918	\$145,775
Benefit to Cost Ratio	4.6-to-1	3.2-to-1

Section 7 Consultation (ESA)

- USFWS – Final BO ☒
- NMFS – Final BO ☒
- USFWS Coordination Act
- Final CAR ☒
- Section 106 Compliance
- Programmatic Agreement ☒
- EIS/EIR
- ROD signed – anticipated Spring 2016 ☐

- ☒ ASA(CW) Approval of LPP Waiver: ARCF Mar 2015
- ☒ Public Review of Draft Report: ARCF Mar 2015, WS Jul 2014
- ☒ IEPR Completion of Review Phase: ARCF Jul 2015, WS Feb 2015
- ☒ Cost Engineering Certification: ARCF Dec 2015, WS Dec 2015
- ☒ ATR Certification: ARCF Sep 2015, WS Sep 2015
- ☒ District Legal Sufficiency: ARCF Sep 2015, WS Sep 2015
- ☒ MSC Legal Sufficiency: ARCF Oct 2015, WS Oct 2015
- ☒ DE Transmittal for CWRB: ARCF Oct 2015, WS Oct 2015
- ☒ Final OWPR Policy Review: ARCF Oct-Dec 2015, Oct-Dec 2015
- ☐ State & Agency Review: Anticipated January 2016 for both studies

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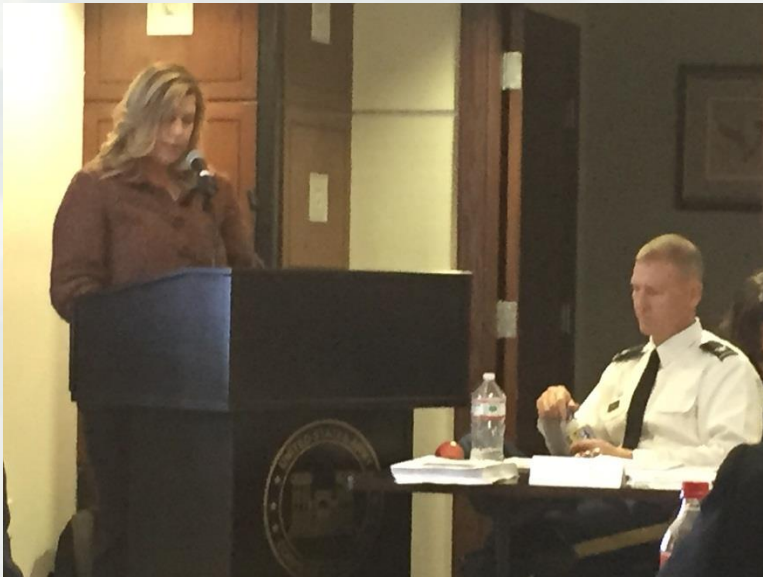
Project Partners in Attendance:

- Ms. Leslie Gallagher, the Central Valley Flood Protection Board (CVFPB)
- Mr. Gary Bardini and Mr. Mike Mierzwa, the California Department of Water Resources (DWR)
- Mr. Rick Johnson, the Sacramento Area Flood Control Agency (SAFCA)
- Mr. Greg Fabun and Mr. Tom Ramos, the West Sacramento Area Flood Control Agency (WSAFCA)
- ❖ *Congresswoman Doris Matsui*
- ❖ *Mr. Christopher Cabaldon, Mayor, City of West Sacramento*



Topics of Concern:

- 1) Missed opportunity for system-wide plan if these projects approved?
 - ▶ CVFPB and DWR staff presented the CVFPP and discussed how these two GRRs are early implementation and no-regrets projects
- 2) Residual flood risk after implementation of these projects?
 - ▶ resolved by SAFCA and WSAFCA presenting details of emergency action plans



Next Steps

- ☐ Report Updates from the CWRB
8 January 2016
- ☐ State and Agency Review
(Initiation) 15 January 2016
- ☐ Request formal CVFPB adoption
of GRRs and EIS/EIRs, 26
February 2016
- ☐ Chief's Report April 2016
- ☐ Finalize ASA and OMB Reviews,
August 2016
- ☐ Formal submission to Congress,
August 2016



QUESTIONS?



Thanks from the USACE team!

