

Sacramento River Bank Protection Project Informational Briefing

January 23, 2015

Meeting of the Central Valley Flood Protection Board

Agenda Item 12A

Dave Wheeldon, Chief

Flood System Sustainability Branch

FMO, Division of Flood Management

PUBLIC SAFETY

ENVIRONMENTAL STEWARDSHIP

ECONOMIC STABILITY

Project Overview

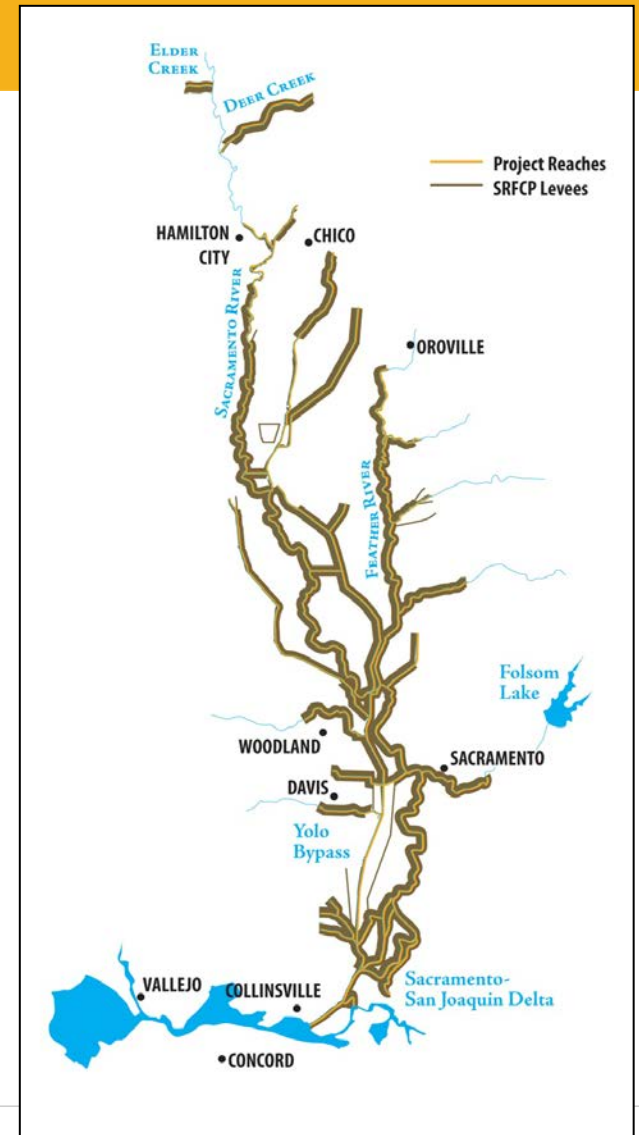
Long-term program to maintain integrity of Sacramento River Flood Control Project

- Critical to addressing public safety and property damage along the SRFCP
- Implemented by USACE and Board



Project Authorization

- Original Authorization
 - Flood Control Act of 1960 - 430,000 + linear feet, no mitigation
 - Phase I completed in 1975
- Project Reauthorization
 - Phase II authorized in 1974
 - 405,000 linear feet
 - Mitigation authorized

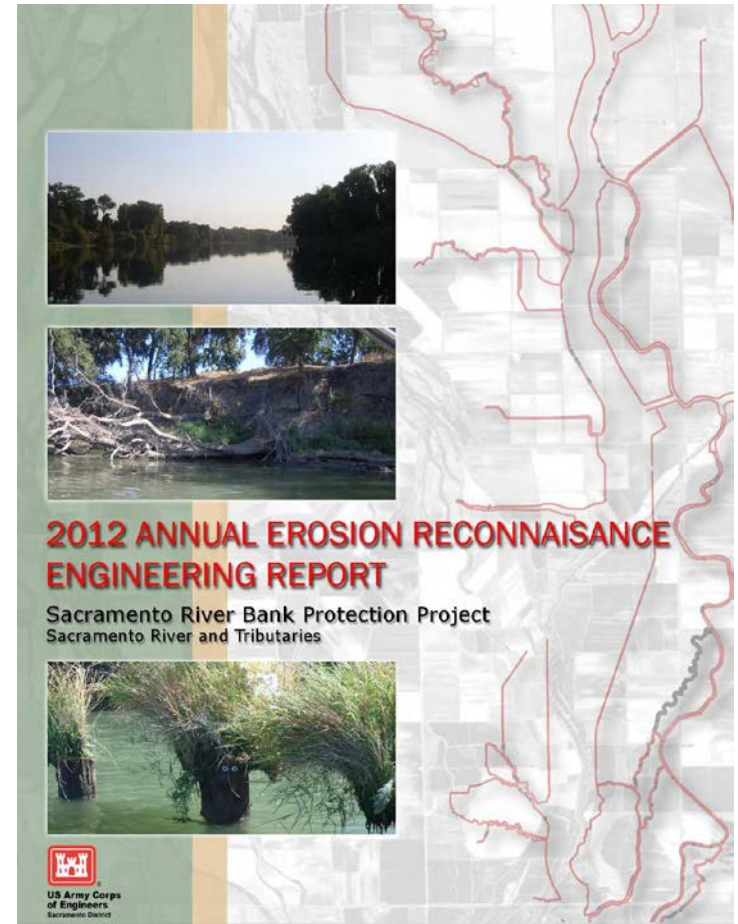


State Responsibilities

- Providing all lands, easements, rights-of-way, relocations, and disposal areas (LERRDs)
- Assures Operations and Maintenance of the completed Project
- Current cost share - two-thirds USACE and one-third State, as prescribed in the 1984 Local Cooperation Agreement
- Contribute the costs over and above for costs of setbacks if State prefers alternative

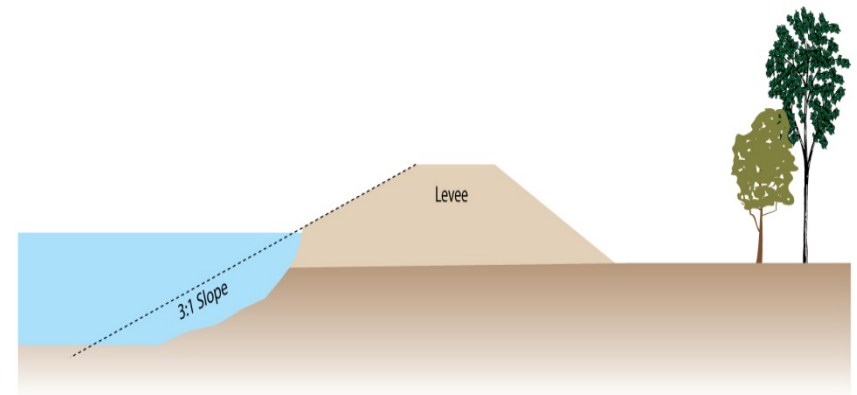
Status

- Work to repair erosion sites occurs annually.
 - 830,000 linear feet (LF) repaired
 - 3 sites now under contract for repair
 - Less than 5,000 LF remain of 1974 Phase II authorization
- Annual Erosion Survey of SRFCP levees.
 - 2012 survey report available
 - 201 erosion sites were identified and included in the inventory
 - 2013 survey completed (report in progress)



Supplemental Authority

- WRDA 2007 authorizes additional 80,000 linear feet
- Phase II grows from 405,000 to 485,000 linear feet
- Programmatic EIS/EIR analyzes impacts of bank protection construction



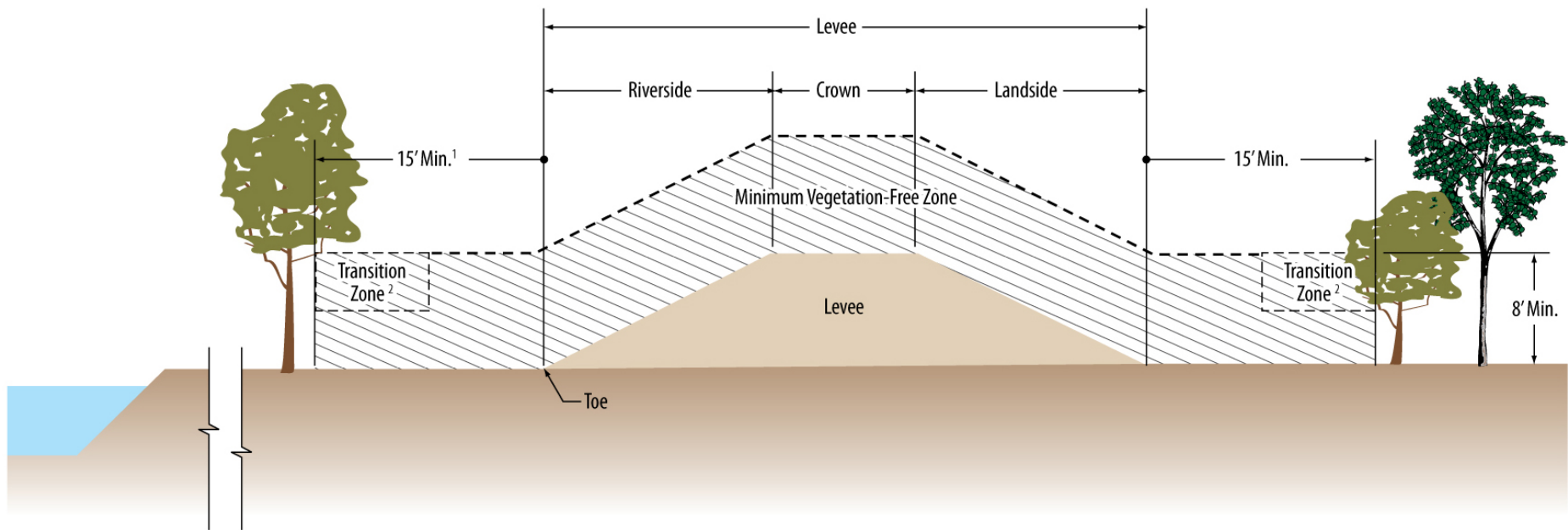
PACR

- PACR is a decision document that identifies the federal interest in the SRBPP as modified by WRDA 2007
 - ensures compliance with USACE policy.
- The programmatic bank protection plan is \$420.5 million at the October 2013 price level
 - Extrapolated from the detailed cost estimate at 6 erosion repair sites located in the economically justified sub-basins
 - \$147.3 million is the State share (35%)
- USACE policy compliant program

Policy Compliant – Vegetation on Levees

USACE Vegetation Policy

- Vegetation Free Zone defined in Engineering Technical Letter 1110-2-571

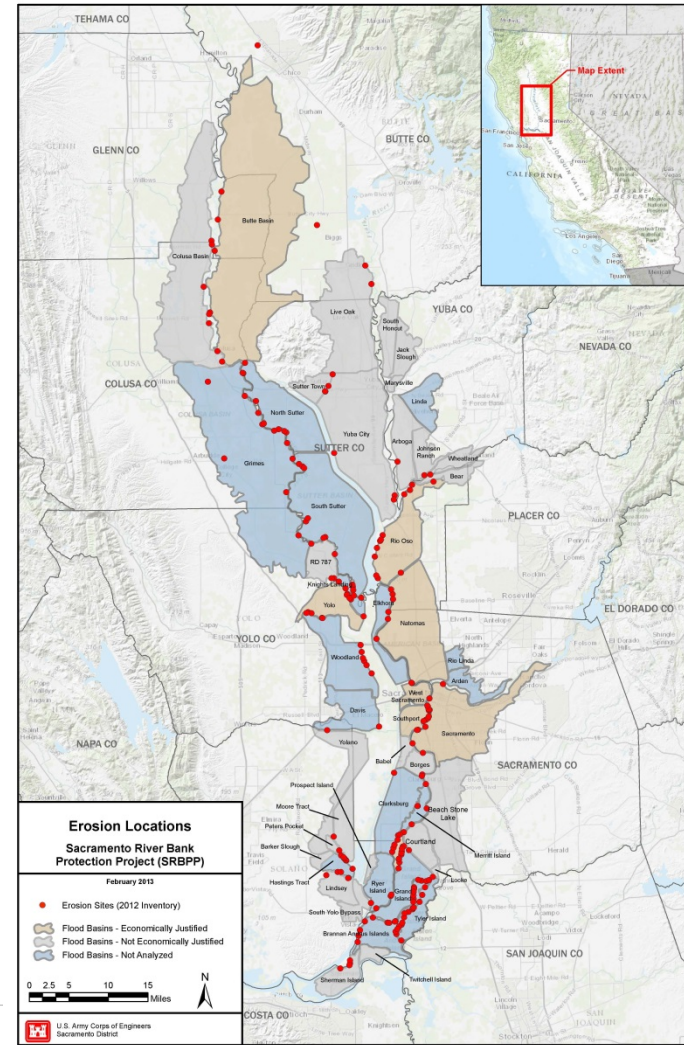


Policy Compliant - Economical Analysis

Economically Justified Basins

- Butte Basin
- Yolo
- Rio Oso
- Natomas
- Sacramento
- West Sacramento
- Southport

PACR recommends State will repair within the sub-basins that are not currently economically justified without Federal cost-sharing



Next Steps

Jan – Feb 2015	Public Review of Draft EIS / EIR
July 2015	Release Final EIS/EIR
July – Aug 2015	Public Review of Final EIS/EIR
August 2015	Record of Decision / Notice of Determination
October 2015	Sign Project Partnership Agreement (Between USACE and CVFPB)

Public Comments

Comments on the Draft PACR EIR/EIS will be accepted until February 27, 2015

- E-mail comments to SacRiverBank@usace.army.mil
- Send written comments to:
Mr. Brian Mulvey
U.S. Army Corps of Engineers
1325 J Street, Sacramento, CA 95814
- Mr. Kip Young
Central Valley Flood Protection Board
3310 El Camino Avenue, Sacramento, CA 95821

Public Workshops

USACE and the CVFPB are hosting public workshops to present information and to accept public comments on the PACR/EIS/EIR.

Workshops already held in W. Sacramento (1/14) and Colusa (1/21).

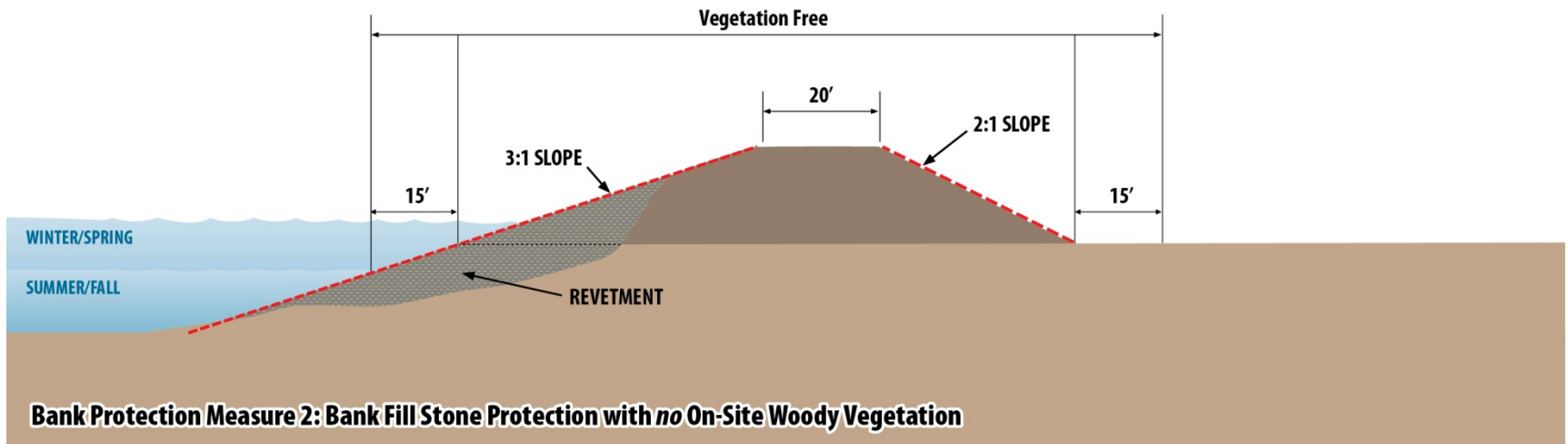
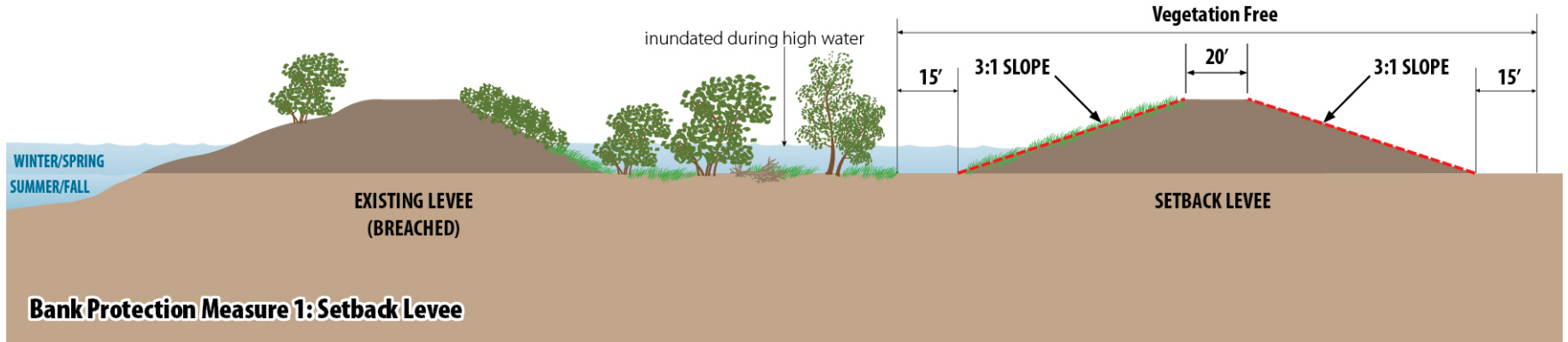
Additional public workshops will be held:

Walnut Grove (Arthur F. Turner community Library)
Jan 28, 2015, 4:00 to 6:00 pm

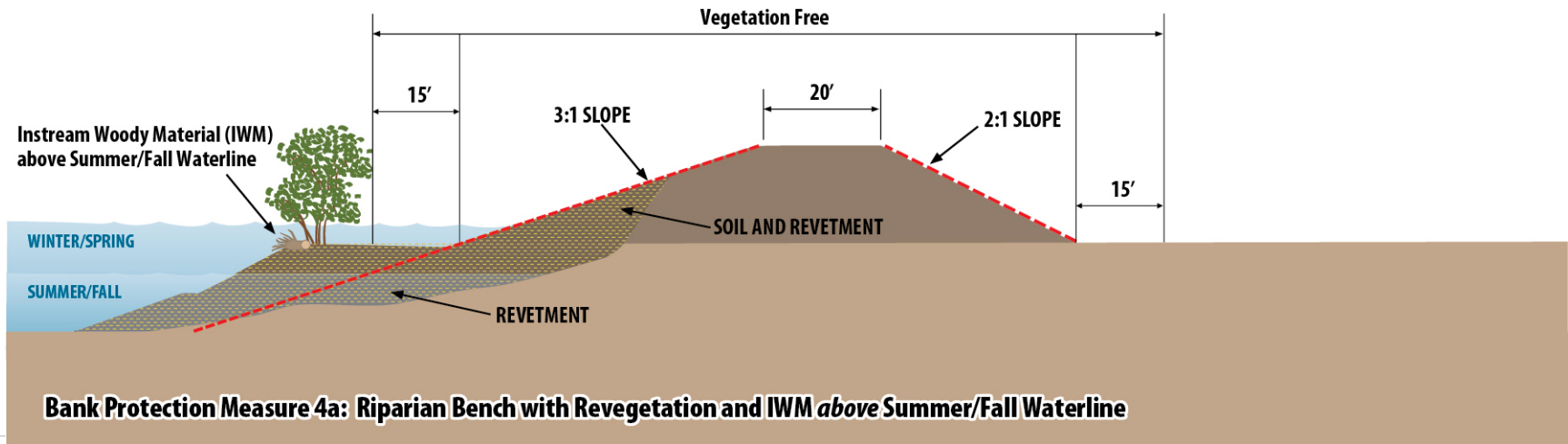
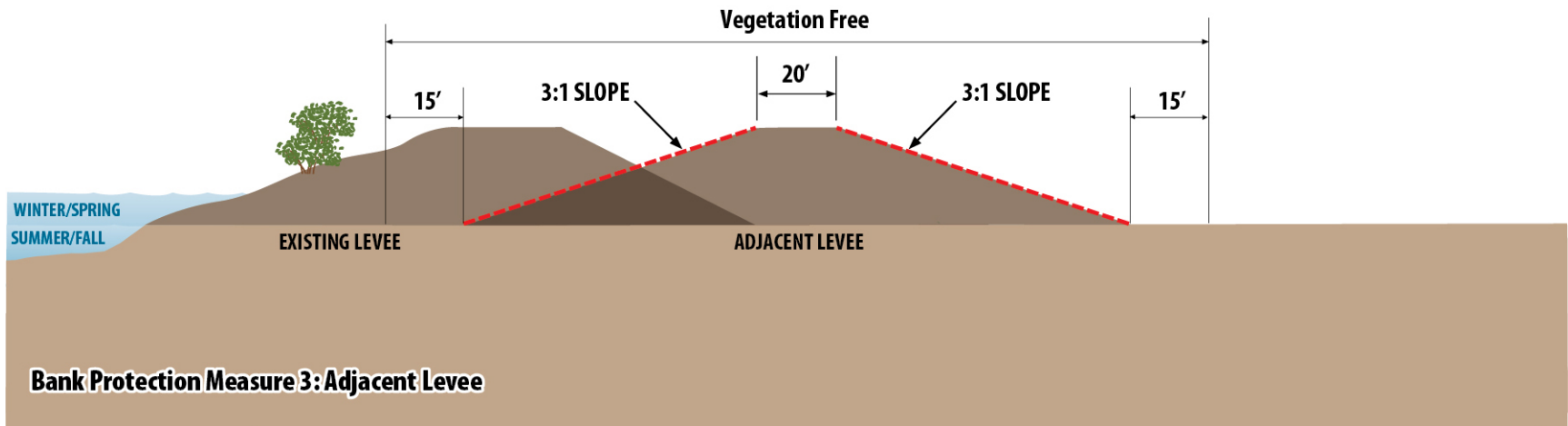
Chico (Butte County Library)
Feb 4, 2015, 4:00 to 6:00 pm

Questions

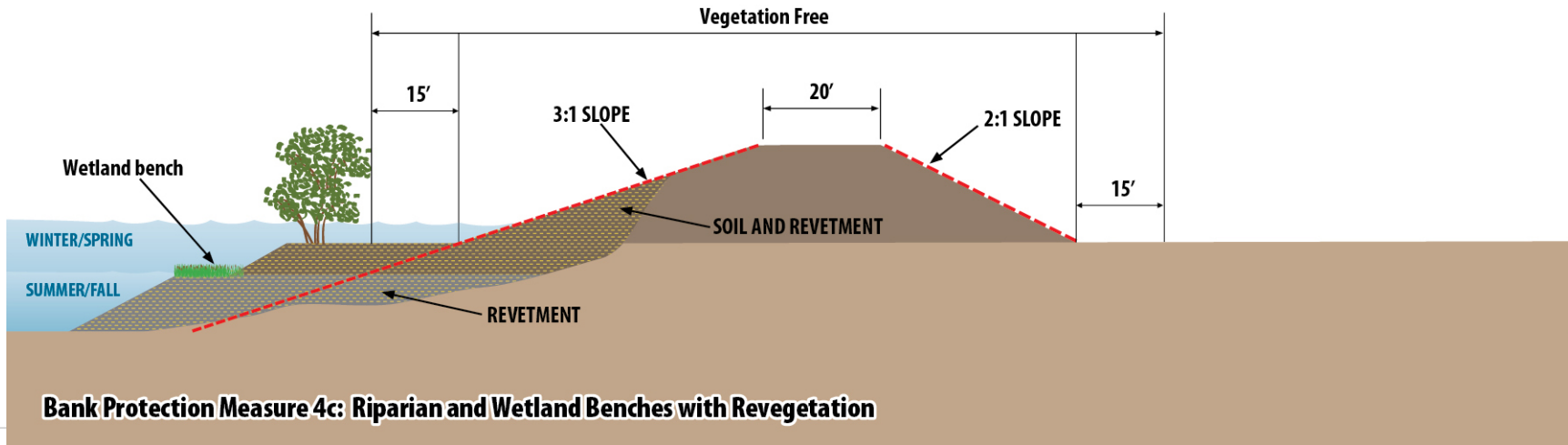
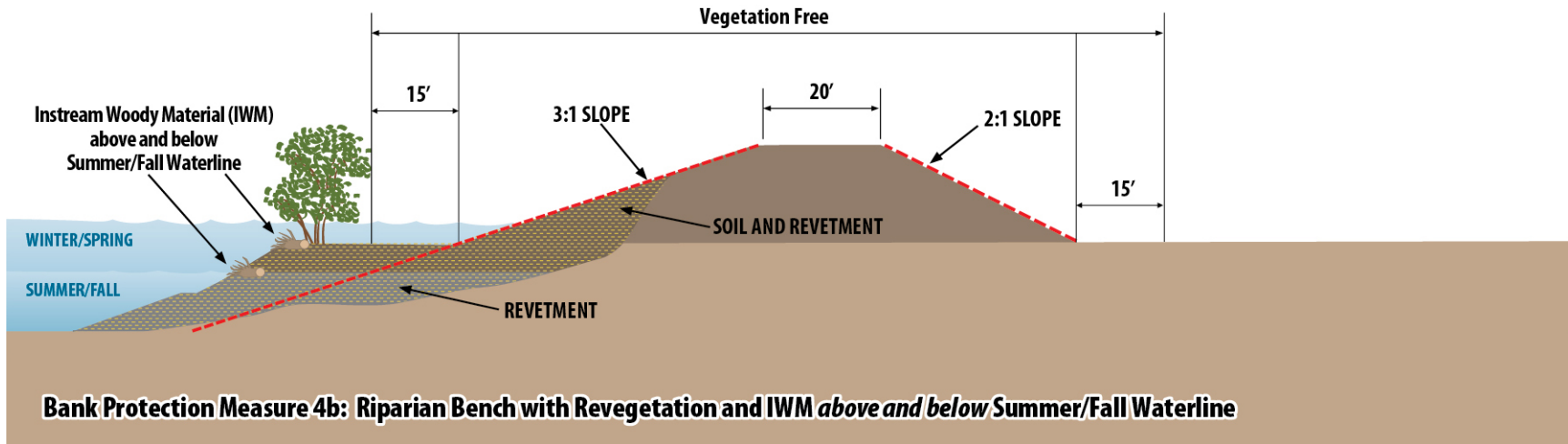
Bank Protection Measures 1 and 2



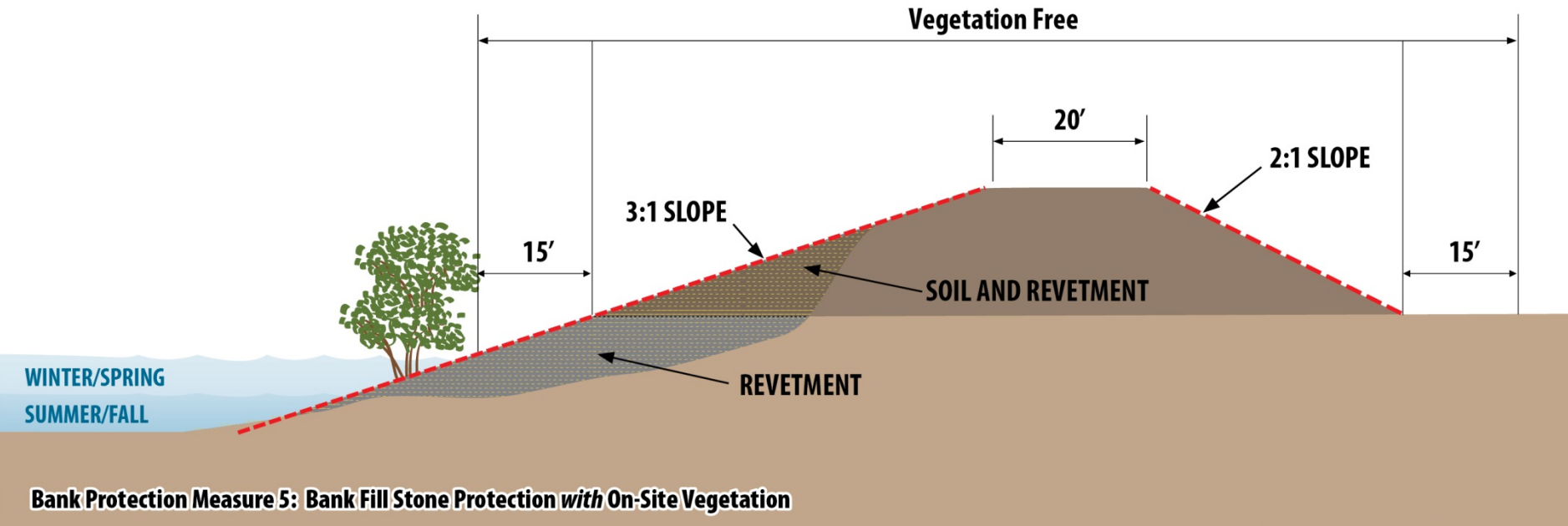
Bank Protection Measures 3 and 4a



Bank Protection Measures 4b and 4c



Bank Protection Measure 5



Justified Basins BCR

Table 5 – Justified Economic Impact Areas (\$1,000s)

Impact Area	Annual Benefit (75 percent Confidence Level)	Annual Cost ¹	Net Benefits	Benefit-to- Cost Ratio (BCR)
Butte Basin	1,028	548	480	1.9 to 1
Natomas	17,524	121	17,403	145 to 1
Rio Oso	796	334	462	2.4 to 1
Sacramento	18,577	56	18,521	332 to 1
Southport	13,345	448	12,897	30 to 1
West Sacramento	13,995	95	13,900	147 to 1
Yolo	770	244	526	3.2 to 1
TOTAL	66,035	1,846	64,189	36 to 1

1. Costs are at October 2013 Price Level, 3.5 percent discount rate, 50-year period of analysis, in \$1,000

Phase II Costs

Table 3 – SRBPP Phase II Changes to Project First Costs (\$1,000)

Phase	Estimated Cost of Current Project ¹	Authorized Cost ²	Authorized Project Updated to Current Price Level ³	Project Cost Last Presented to Congress 1972 Price Level ⁴	Project Cost Last Presented to Congress Updated to Oct 2013 Price Level
Phase II, 405,000 LF	\$256,129	N/A	N/A	48,000	271,400 ³
Phase II, 80,000 LF	\$420,513	N/A	N/A	N/A	N/A
Total Phase II	\$676,642	N/A	N/A	N/A	N/A

1. Costs are at October 2013 price level.
2. No costs were included in the authorized language.
3. Cost updated using Civil Work Construction Cost Index System, Revised September 30, 2011.
4. Chiefs Report: May 26, 1972 price level assumed from date of report.

Additional Actions

- Support preparation of a new Project Partnership Agreement (PPA) between USACE and the Board for construction of the projects under the 80,000 LF supplemental authority;
- The General Revaluation Report (GRR) is separate from Phase II 80,000 LF PACR. A Project Management Plan and Federal Cost Share Agreement are being developed for approval and execution