



THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
Yuba County Government Center, Board Chambers
915 Eighth Street, Suite 109A
Marysville, California

WORKSHOP
SEPTEMBER 19, 2011 – 4:00 P.M. AMENDED

No other business shall be conducted at this meeting. The public shall have an opportunity to address the Authority only with respect to items set forth in this agenda. Each individual or group will be limited to no more than five minutes. Prior to this time, speakers must fill out a “Request to Speak” card and submit it to the Clerk of the Board of Supervisors.

I **ROLL CALL** – Directors Rick Brown, Jerry Crippen, Don Graham, Mary Jane Griego, John Nicoletti

II **PRESENTATION**

A. Receive presentation on interim findings of flood risk analysis of the Yuba Goldfields.

III **ADJOURN**

The complete agenda, including backup material, is available at the Yuba County Government Center, 915 8th Street, Suite 109, the County Library at 303 Second Street, Marysville, and www.trlia.org. Any disclosable public record related to an open session item on the agenda and distributed to all or a majority of the Board of Directors less than 72 hours prior to the meeting are available for public inspection at Suite 109 during normal business hours.

In compliance with the Americans with Disabilities Act, the meeting room is wheelchair accessible and disabled parking is available. If you have a disability and need disability-related modifications or accommodations to participate in this meeting, please contact the Clerk of the Board's office at (530) 749-7510 or (530) 749-7353 (fax). Requests must be made one full business day before the start of the meeting.



THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
1114 Yuba Street, Suite 218
Marysville, CA 95901
Office (530) 749-7841 Fax (530) 749-6990

September 19, 2011

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul Brunner, Executive Director
Ric Reinhardt, Project Engineer
Scott Shapiro, General Counsel
SUBJECT: Joint TRLIA, Yuba County Board of Supervisors, and RD 784 Work Shop
– Briefing on TRLIA Interim Findings of Flood Risk Analysis of the Yuba Goldfields

Recommended Action:

Receive Presentation on TRLIA Interim Findings of Flood Risk Analysis of the Yuba Goldfields and ask questions for understanding and clarity.

Background:

The Yuba River Goldfields is located on both sides of the Yuba River in Yuba County, California, just northeast of the city of Marysville. The Goldfields encompasses approximately 10,000 acres and was formed in the late 1800s by dredging of the hydraulic mining debris from the Yuba River. The Goldfields is filled with oddly shaped gravel mountains, ravines, streams, and ponds. Water moves through the Goldfields by surface flow, subsurface flow, and seepage through the gravel piles, which complicates hydraulic modeling of the area. In addition, ongoing mining operations continually change the area's topography.

Training walls along both sides (north and south) of the Yuba River were originally constructed in the early 1900s, under the direction of the California Debris Commission, to control the orientation of the Yuba River. The training walls were designed to prevent mining debris from being returning back to the Yuba River as debris. The training walls have provided an additional benefit of blocking high flows in the Yuba River from exiting the Goldfields Area. In 1950, mining operations blocked the low flow channel and removed a section of the south training wall. In November of that year, flood waters flowed through the manmade breach in the south side of the Yuba River channel in the Goldfields and flooded portions of South Yuba County.

The flood risk to South Yuba County as a result of flooding from the Goldfields is of interest to the Three Rivers Levee Improvement Authority (TRLIA), the U.S. Army Corps of Engineers (USACE), the California Department of Water Resources (DWR), and the Central Valley Flood Protection Board (CVFPB), as they strive to implement a program to provide 200-year protection to this urban area. Since 2004, TRLIA has implemented significant levee repair projects with a goal of providing 200-year flood protection to the communities of Linda, Arboga, Olivehurst and Plumas Lake. TRLIA is currently constructing the final phase of levee repairs on the south levee of the Yuba River, from Simpson Lane to the Goldfields. In March 2010, the USACE gave a presentation to the CVFPB which included a summary of the results from their hydraulic analysis of the Goldfields area. The USACE analysis led it to conclude that the

Goldfields did not present a flood risk for the Yuba Basin for a 100-year storm event, but did present a flood risk at the 200-year storm event. The USACE analysis was a coarse level 2-dimensional analysis to ascertain a conservative estimate of flood damages and costs for the General Reevaluation Report. The USACE presentation also concluded that there was not a Federal interest in an engineered solution to extend existing flood protection, specifically constructing a new levee south of the Goldfields area.

Discussion:

In an effort to better define residual flood risk associated with the Goldfields, TRLIA expanded the hydraulic analysis to include a comprehensive 2-dimensional hydraulic model to simulate the complex Goldfields area. In addition to the hydraulic modeling, TRLIA began an evaluation of the South Training Wall to examine how this feature has performed during past flood events and determine the ability of the training wall to safely pass both a 100 and 200-year storm event. Preliminary results from the TRLIA analysis were completed in August 2011. During the joint session, TRLIA staff will present the initial results to the Boards of TRLIA, Yuba County, and RD 784. The presentation will include the following topics:

- Stakeholders
- Relationship of TRLIA's Program to Goldfields
- USACE Goldfields Analysis – March 2010
- Goldfields Flood Management Context
- TRLIA Goldfield Analysis
- TRLIA Preliminary Analysis Results Summary
- Proposed Path Forward
- Conclusions
- Questions