



THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

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Project Status Report dated March 2, 2007

(Submitted to The Reclamation Board for the March 16, 2007, meeting)

A progress report of the various phases of the Three Rivers Levee Improvement Authority (TRLIA) project is provided in the followings sections of this document.

State Reclamation Board TRLIA Sub-Committee Meeting: On 26 February 2007 the State Reclamation Board sub-committee met in Marysville to discuss the following topics:

- a. Status and plans for the Phase 4 Feather River Improvement Program
- b. DWR's participation in the Phase 4 Feather River Improvement Program
- c. Status of applicant's compliance with permit conditions

Corps Certification: On 14 December 2006 TRLIA requested the Corp of Engineers to certify portions of RD 784's levee system, as outlined below:

1. Yuba River (south levee): From Hwy 70 to Simpson Lane
2. Yuba River/Feather River (east levee) from Hwy 70 to Island Ave. (recently removed from the TRLIA certification request – see item j. below)
3. Bear River (north levee): From Western Pacific Interceptor Canal to Feather River
4. Western Pacific Interceptor Cana (west levee): From Highway 70 to Bear River

On 30 January, 2007 the Corp of Engineers sent a letter to TRLIA that provided the status of their certification effort. The Corp letter asked TRLIA for additional information. Provided below is the status of the items mentioned in the January 30, 2007 Corps Letter to TRLIA with respect to certification:

- a. **Provide all Construction Records to verify that levees were built according to the design** – TRLIA has provided a construction report on Phases 1, 2, and 4 (Yuba) and a separate construction report on Phase 3 (Bear Setback Levee) to the Corps. These reports are under review by the Corps.
- b. **Provide additional wind-wave analysis to support reducing the length of riprap on the WPIC** – This work has been completed and accepted by the Corp.
- c. **Provide information to show that utility crossings meet current Corps and State of California Criteria** – TRLIA has sent letters to all utilities with levee crossings asking that they supply information on the crossing. This information will be reviewed to

determine if standards have been met. If not, TRLIA will work with the utility to have the crossing modified. The Corps has requested documentation of meeting the standard or a plan to meet the standard by April 30, 2007. The utilities are slow in responding. TRLIA may request the assistance of the Reclamation Board in obtaining as built information for permitted utility crossings.

- d. **Construct seepage berm and install monitoring wells along the Yuba levee between Station 35+00 and 39+00** – This work has been completed.
- e. **Install a monitoring well along the WPIC at Station 216+50** – This work has been completed.
- f. **Raise Levee of WPIC at Station 311+00 to elevations permitted under encroachment permit #17782 BD to achieve 4 feet of freeboard for the base flood** – This work has been completed.
- g. **Two power poles currently located within the Yuba seepage berm near Station 33+00 shall be relocated to outside the berm** – One of the poles was found to no longer be needed and has been removed. TRLIA and PG&E have reached agreement on a contract and are in the process of executing a contract with PG&E for relocation of the remaining pole. This work will be accomplished this summer.
- h. **Provide as-built drawings of the earthwork performed along the Bear River between Station 139+00 and 144+00 for review and acceptance by the Corps** – This work has been completed.
- i. **Provide documentation that a 24-inch corrugated metal pipe as shown in the Operation and Maintenance Manual at WPIC Station 264+00 has been properly abandoned** – TRLIA has issued a change order to the contractor to pothole along the landside toe to search for this pipe after the flood season has passed.
- j. **Perform additional investigations into the potential for embankment erosion along the Yuba/Feather levee from Highway 70 to Island Avenue** – TRLIA has developed a more detailed 2-Dimensional hydraulic model of this reach and has performed some scour analysis for the overflow channel that runs along the toe of the levee in this reach. Results of these analyses are being discussed with the Corps to determine what is required to assure erosion protection. Due to these discussions TRLIA has opted to remove this portion of levee reach from its certification request and move this levee reach into the Phase 4 Feather River Segment 3 design work.

Levee Design and Construction Work

Phase 2 Levee Repair - Bear River Station 131 and easterly, Western Pacific Interceptor Canal and Yuba River from just east of Highway 70 to the Union Pacific Railroad:

- a. This reach of levee is under evaluation by the Corps for certification.
- b. Work on raising the WPIC just downstream of Highway 70 has been completed under encroachment permit #17782 BD.
- c. TRLIA is preparing an encroachment permit application for the Caltrans detention basin as agreed to at the February State Reclamation Board meeting.

- d. TRLIA and PG&E have reached agreement on a contract and are in the process of executing a contract with PG&E for relocation of the remaining pole. This work will be accomplished this summer.
- e. The completed levee work is being inspected for erosion damage during winter rains and erosion prevention measures are being maintained as necessary. One area of erosion that has occurred is on the Yuba stability berm, which will be repaired as weather conditions permit as a routine operations and maintenance activity.

Phase 3 Construction – Bear River Setback Levee between the Feather River Levee and the limit of Phase 2 Construction:

- a. This reach of levee is under evaluation by the Corps for certification.
- b. All work is done and this reach of the Bear now has 200-year protection.
- c. Restoration plantings are being monitored and maintained.
- d. The completed levee work is being inspected for erosion damage during winter rains and erosion prevention measures are being maintained as a routine operations and maintenance activity.

Phase 4 – Yuba River Levee between the Union Pacific Railroad and the Goldfields:

- a. The reach of this levee from the UPRR to Simpson Lane is under evaluation by the Corps for certification.
- b. A presentation is scheduled by the Reclamation Board staff and DWR at the March 2007 Reclamation Board meeting on the hydraulic review of raising this levee to determine if additional raising will be allowed.
- c. The completed levee work is being inspected for erosion damage during winter rains and erosion prevention measures are being maintained as a routine operations and maintenance activity.
- d. Design continues on the erosion problem that exists just downstream of the Goldfields. This was a site of erosion during the 1997 event.

Phase 4 – Feather River Levee between Bear and Yuba Rivers:

- a. Design is completing on Segments 1 and 3 which will be strengthened in place with construction scheduled to begin in the summer of 2007. 90% Plans and Specifications are under review. A meeting was held on February 12 with the Corps and DWR to discuss the Plans and Specifications. This contract is scheduled for award in May/June, 2007.
- b. The TRLIA Board has selected the setback levee alternative for Segment 2 and final design and real estate acquisition will commence this spring.