



THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

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THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

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.



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Supplemental to Project Status Report dated March 2, 2007

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

Corps Certification: Here is an update to the items listed in the Mar 2, 2007 TRLIA report. Certification is contingent upon the completion of item a below. TRLIA and the Corp of Engineers are working closely together to complete this item:

- a. **Provide all Construction Records to verify that levees were built according to the design** – The Corps has provided comments on the draft reports. TRLIA has responded to those comments and is coordinating with the Corps to determine if our responses completely address their comments.
- b. **Provide additional wind-wave analysis to support reducing the length of riprap on the WPIC** – No change from original status report: Completed
- c. **Provide information to show that utility crossings meet current Corps and State of California Criteria** – TRLIA is attempting to contact utilities by phone to encourage submittal of requested information. Five utility companies representing eleven utility crossings have been contacted. We have had a response from only one of the companies. This will most likely not delay certification but will remain an issue that must be resolved with the Corps of Engineers with the Reclamation Board's assistance
- d. **Construct seepage berm and install monitoring wells along the Yuba levee between Station 35+00 and 39+00** – No change from original status report: Completed
- e. **Install a monitoring well along the WPIC at Station 216+50** – No change from original status report: 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** – No change from original status report: Completed
- g. **Two power poles currently located within the Yuba seepage berm near Station 33+00 shall be relocated to outside the berm** – TRLIA and PG&E have executed a contract for relocation of the remaining pole, which satisfies the Corp of Engineers requirement for certification. This work will be accomplished this summer: Completed

- 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** – No change from original status report: 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** – The TRLIA change order that was mentioned in original status report to pothole along the landside toe to search for this pipe after the flood season has passed satisfies the Corp of Engineers requirement for certification: Completed
- j. **Perform additional investigations into the potential for embankment erosion along the Yuba/Feather levee from Highway 70 to Island Avenue** – No change from original status report: Certification moved to Phase 4 Feather Segment 3 work

Levee Design and Construction Work – Updates since March 2, 2007 Report:

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. TRLIA has submitted an encroachment permit application for the Caltrans detention basin as agreed to at the February State Reclamation Board meeting. The State Reclamation Board Staff have indicated to TRLIA that the processing of this application will occur pending the State Reclamation Board decision at the 16 Mar 2007 meeting.
- b. TRLIA and PG&E have executed a contract for relocation of the remaining pole. This work will be accomplished this summer.
- c. TRLIA has received a permit variance to extend the construction time to repair the recently discovered levee scrape.

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

- a. No change from original status report.

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

- a. No change from original status report.

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

- a. No change from original status report.

TRLIA and Developer Outreach and Notification: The Plumas Lake Cooperative Marketing Group, an effort sponsored by all of the developers currently building in the Plumas Lake Specific Plan, hosted an orientation meeting on February 21, 2007. The goal of the meeting was to present an update on various relevant issues, such as the status of the levee improvement work, planned schools, projected road improvements, and future parks. A portion of the meeting was dedicated to providing to the sales agents the most recent information about the status of the levees. The agents were specifically asked to display and give to the public the brochure produced by TRLIA showing all of the work completed to date, but also all of the planned future work. Agents were also advised to direct the public to TRLIA's website for more detail about the levee work (www.trlia.org) and to the marketing group's website <http://www.plumaslakeliving.com/>. Every developer was represented by its on-site sales agents and relevant off-site sales and marketing management.

Building Permits Issued in Plumas Lake Specific Plan Area and North Arboga Study Area in 2007: The attached table and graph provides information related to residential building permits issued for the Plumas Lake Plan Area (PLSPA) and the North Arboga Study Area (NASA) within Yuba County in 2007.

As shown in the table, a total of 127 building permits have so far been issued in 2007. 800 Permits were issued in 2005 and 583 permits in 2006.

- Table - Permits issued within PLSPA and NASA in 2007
- Graph – Building Permits Issued in TRLIA Project Area (Dec 2005 – Feb 2007)

Plumas Lake Specific Plan Area and North Arboga Study Area - Building Permits Issued in 2007

Developer/Builder	Monthly Building Permits Issued for Plumas Lake and North Arboga Study Area						Total (By Builder)
	Jan-07		Feb-07		Mar-07		
	Plumas	NASA	Plumas	NASA	Plumas	NASA	
KB Homes North Bay	28	15	17	4			64
Cresleigh Homes			5				5
Forecast Homes/K Hovnanian							0
Homes by Towne/HBT Constr.							0
Beazer Homes							0
California Homes/Home Builders							0
Cassano Kamilos Homes							0
D.R. Horton/Western Pacific							0
Other		46	2	10			58
Monthly Totals	89		38		0		127

Thru 2/28/07

Total Permits for 2007 Thus Far 127

Building Permits Issued in TRLIA Project Area

