



THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

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Project Status Report dated August 16, 2010

(Submitted to The Central Valley Flood Protection Board for the August 27, 2010 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. Updates are indicated with italics and underline.

1. Levee Design and Construction Work:

a. **Phase 4 – Yuba River Levee between Simpson Lane and the Goldfields:**

- 1) Environmental: The work from Simpson Lane up to the Goldfields area is planned to begin in 2010. Originally TRLIA had planned to accomplish the CEQA and NEPA process together in a joint document. However, TRLIA has opted to separate the joint CEQA /NEPA Upper Yuba Levee Improvement Project (UYLIP) document into separate CEQA and NEPA documents. This change was made to facilitate the initiation of right of way acquisitions and State and/or local approvals needed for construction of the UYLIP in 2010. The public comment period for the Draft UYLIP Environmental Assessment for the Section 408 and 104 credit approvals ended on June 23. Two comment letters were received. The Corps is still completing Section 7 and Section 106 consultation and expects to issue the FONSI with completed consultations by the end of this month.

TRLIA issued the Draft IS/MND for public review on February 12 and the public review comment period ended on March 15th. The TRLIA Board adopted a Mitigated Negative Declaration at their April 20th meeting and Notice of Determination was filed on April 23rd.

TRLIA is working with the State (DWR & CVFPB staffs), Corps, and F&WS on using the Anderson Road Elderberry Mitigation site for the UYLIP project. The Anderson Site is along the Feather River and is located in the floodway. The F&WS Biological Opinion for the project will address concerns associated with the mitigation site being in the floodway.

- 2) Design: The UYLIP consists of 15,150 linear feet (LF) of cutoff wall ranging from 47 to 70 feet deep, 1,559 LF of seepage berm 80 feet to 150 feet wide at the end of the project, 3,159 LF of waterside slope rock erosion protection at the end of the project, and geometry corrections throughout the project reach.
Listed below are several key design actions:

- a) The 90% Design Documentation Package was issued on May 24. TRLIA has resolved the design issues that were discussed at the April CVFPB meeting during the 408 letter agenda item with CVFPB Staff. The one remaining issue with respect to the proper assumed condition of the Yuba Training Levee in developing design water surface elevations was resolved at the July CVFPB meeting through TRLIA 1) acknowledging the relationship of this feature to achieving 200-year protection and agreeing to work with the landowner, State, and Federal agencies to coordinate repair of any future breach by the appropriate entity, and 2) yearly checking the training levee for damage and reporting the inspection results to the CVFPB. TRLIA agreed to the yearly training levee check pending the property owner providing their concurrence.
 - b) The CVFPB approved issuing an Encroachment Permit at their July 22, 2010 meeting for the UYLIP. This permit is to be issued after the Corps provides Section 408 Approval.
 - c) Yuba County Water Agency (YCWA) submitted a Section 104 request to the CVFPB on February 23, 2010. The CVFPB approved a request letter to the Corps of Engineers for the Section 104 Credit at the April CVFPB Meeting.
 - d) TRLIA submitted the Draft Section 408 Summary Report on March 2 for review by the CVFPB and Corps of Engineers staff. The CVFPB submitted a request letter to the Corps of Engineers for Section 408 Approval on May 18, 2010. The Sacramento District will submit an approval package for Section 408 and Section 104 to its HQ once Section 7 and Section 106 consultation is complete and the FONSI is finalized.
 - e) A Memorandum of Understanding between the USACE and the CVFPB was signed on June 30, 2010 providing for credit under Section 2003 of the Water Resources Development Act of 2007 for the Upper Yuba Levee Improvement Project is being revised to include recently developed standard language for Section 203 Credit Agreements. The revised MOU will need to again be signed by the CVFPB and USACE.
- 3) Construction: The UYLIP was advertised for bids on June 21. TRLIA plans to open bids in late August. Award will not be made until the 408 authorization is provided and the 104 credit request approved by the Corps. Most, if not all, the construction work for the UYLIP will be accomplished in the 2011 construction season.

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

1) Segment 2:

- a) **Part A of encroachment permit:** Embankment construction was completed last year. FEMA provided TRLIA a letter on May 27, 2010 stating that the Segment 2 reach of levee would be accredited in the maps being revised for Yuba County. TRLIA and RD784 are developing a punch list for minor items to be completed.
- b) **Existing Levee Degrade:** TRLIA re-started degradation for the 2010 construction season on April 12, 2010. Degradation was complete August 6, 2010. The JTS/Platter offsite borrow area has been graded to final elevations and will have grass planted in September before returning use of the parcels to

the original owner. The main borrow site in the Setback Area has been graded to final elevations and will have grass planted in September. Some existing culverts are being cleaned and replaced in order to aid drainage of the Setback Area and minimize potential fish stranding.

c) TRLIA submitted a separate encroachment permit application to the CVFPB for the Vegetated Wave Buffer on September 3, 2009. This encroachment permit is under review by the CVFPB staff. TRLIA met with DWR & CVFPB staff on April 5th to discuss options on the long term O&M plan for this area. TRLIA plans on submitting the long term management plan for CVFPB consideration in August. The first three years of maintenance for the buffer will be done via TRLIA funded contract. After the initial three years the maintenance of the buffer will be performed by RD784. The cost to RD784 is estimated to be less than \$10,000 per year and would be funded from the TRLIA levee O&M Benefit Assessment District.

c) TRLIA is preparing the permit application for the Feather River Elderberry Mitigation Area. TRLIA continues to work with DWR floodway maintenance staff and F&WS to develop an acceptable approach to floodway maintenance for all parties. DWR has set up a committee to guide the actions within the Feather River Corridor, with participation from various branches of DWR, the CVFPB, the local maintenance districts, TRLIA, the counties, and other interested stakeholder groups. The Committee is called the Feather River Corridor Management Plan development team. A draft application is complete and under review and revision. TRLIA expects to submit the encroachment permit application by the end of August.

2. Goldfields:

a. The Corps of Engineers presented their hydraulic analysis and findings for the Goldfields area at the March 2010 CVFPB meeting. The key Goldfields points are:

- 1) 100 year storm event: The Corps' has concluded that the Goldfields do not represent a risk from flooding for the 100 year storm event. This means that the Goldfields area is not anticipated to affect TRLIA's efforts to finalize the FEMA accreditation of the RD784 levee system.
- 2) 200 year storm event: The Corps hydraulic model for the 200 year storm event shows flow coming out of the Goldfields area above the RD784 Patrol Road levee. This overflow results in shallow overland flow and impacts portions of East and West Linda, Olivehurst, and Arboga. As part of the GRR, the Corps evaluated an alternative that would build a new levee on the south side of the Goldfields. The Corps' conclusion is that the damages from the residual floodplain do not justify the cost of this levee. The benefit to cost ratio is 0.1. Thus the Corps will not be pursuing this alternative; however, the Corps representatives did not preclude Corps participation in the future should new information become available. This Corps hydraulic analysis implies that upon completion of the TRLIA program as currently defined, there would be a residual 200 year floodplain. The Corps analysis for the GRR should be considered at a feasibility level of analysis.

3) TRLIA continues to work on the hydraulic study to better define the risk of flooding from the Goldfields. TRLIA has met with the mining interests in the Goldfields area to obtain information (e.g. topography data) that would assist the hydraulic study. The purpose of this effort is to reaffirm the Corps' conclusions for the 100 year event and to conduct a more detailed evaluation of the flood risk at the 200 year flood event. This analysis will be provided to the CVFPB, DWR and Corps at key milestones to seek agency input on the analysis. Once completed it can be used to identify alternatives to reduce the flood risk from the Goldfields. The analysis has been delayed due to late delivery of topographic information in the Goldfields from the State. The TRLIA analysis is now anticipated to be available in the spring of 2011.

b. The USACE analysis of the Goldfields does not affect the need for the current TRLIA Upper Yuba River Levee Improvement Project (UYLIP). TRLIA's plans for the UYLIP include tying the levee into the Goldfields and strengthening the barrier between the mining area and the properties to the south. Regulatory agencies and TRLIA's BOSCC – a group of independent professional engineers who provide quality control and independent review of TRLIA's work – have concluded that the UYLIP will provide a high level of flood protection as designed for both 100-year and 200-year storm events.

c. TRLIA remains committed to achieving 200 year flood protection for South Yuba County, and will keep the CVFPB and others up to date on our progress.

3. Building Permits Issued in Plumas Lake Specific Plan Area and North Arboga Study Area in 2010:

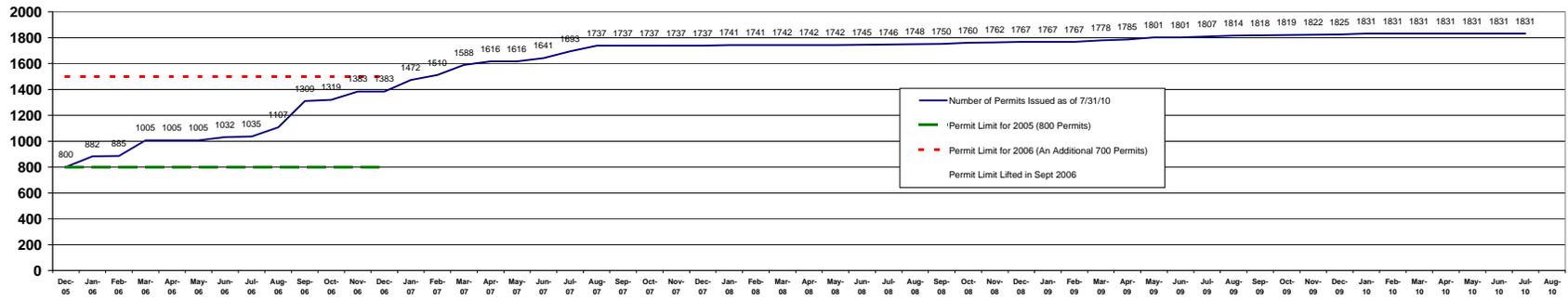
a. The attached graph and table provides information related to residential building permits issued for the Plumas Lake Plan Area (PLSPA) and the North Arboga Study Area (NASA) within Yuba County in 2010.

b. As shown in the table, a total of 6 building permits have been issued in 2010 so far. No permits were issued in July of 2010.

Attachments:

1. Building permit graphic
2. Building permit table

Building Permits Issued in TRLIA Project Area



Plumas Lake Specific Plan Area and North Arboga Study Area - Building Permits Issued in 2010

Developer/Builder	Monthly Building Permits Issued for Plumas Lake and North Arboga Study Area														Total (By Builder)
	Jan-10		Feb-10		Mar-10		Apr-10		May-10		Jun-10		Jul-10		
	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	Plumas	NASA	
KB Homes North Bay	6														6
Cresleigh Homes															0
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															0
Monthly Totals	6		0		6										

As of July 31, 2010

Total Permits for 2010 6
As of July 31, 2010