Phase 1 Levee Repairs (2004)
- Yuba Levee: 2,200-foot long, 50-foot deep slurry wall to provide a cutoff of underseepage

Phase 2 Levee Repairs (2005)
- Yuba Levee: 90- and 300-foot wide landside seepage berms to protect against underseepage
- Olivehurst Detention Basin: New detention pond adjacent to the Clark Lateral Canal and a new pump station
- Upper WPIC Levee: 500-foot long, 38-foot deep slurry cutoff wall and an 1,100-foot, 44-foot deep slurry cutoff wall to minimize underseepage at Plumas Lake
- Lower WPIC Levee: Landside toe ditch filled to provide protection against underseepage
- Upper Bear Levee: Reconstruction of 300 feet of levee; rock slope protection at confluence with WPIC to provide erosion protection

Phase 2 Levee Repairs (2006)
- Olivehurst Detention Basin: Ring Levee between SR-70 and the Clark Lateral Levee
- WPIC Levee: Levee crown raise to provide adequate freeboard
- Lower Bear Levee: Levee crown raise to provide adequate freeboard and a waterside impervious zone to prevent throughseepage. Pump Station No. 6 removal and a new set back pump station to protect against underseepage at the Algodon Canal. Tie-in for the Bear River setback levee

Phase 3 Levee Repairs (2005)
- Clearing, grubbing, and stripping of setback levee foundation
- Excavation and backfilling of approximately 9,500 feet of inspection trench
- Construction of approximately 9,500 feet (430,000 square feet) of soil-bentonite slurry cutoff wall
- Construction of setback levee tie-in embankment with existing Feather River Levee
- Installation of two relief wells
- Investigation of three archeological areas revealed during construction

Phase 3 Levee Repairs (2006)
- Demolition of existing homes and structures within the setback levee area
- Clearing and grubbing of remaining trees in setback area
- Construction of setback levee embankment (approx. 800,000 cy)
- Installation of approximately 18 relief wells
- Construction of two detention basins with total capacity of 300 acre-feet
- Removal of portions of the existing Bear and Feather River Levese
- Construction of a floodplain swale to mitigate for potential fish stranding

Phase 3 Levee Repairs (2006/2007)
- Environmental restoration of setback area and existing Bear River floodway

Phase 4 Levee Repairs (2006/2007)
- Upper Yuba Levee: Cutoff wall between the UPRR and Simpson Lane to protect against underseepage (under design)
- Feather River Levee: Strengthen in place and/or setback levee

Phase 4 Levee Repairs (2007/2008)
- Feather River Levee: Strengthen in place and/or setback levee (under design)
- Yuba River: Goldfields improvements