## **2015 Interim Performance Report**

**Project Title:** EBTJV Dam Removals to Reconnect Brook Trout Habitat on an Unnamed Tributary to Frankstown Branch, Hollidaysburg PA

Date Prepared: December 18, 2015

**Submitted By:** Lisa Hollingsworth-Segedy, AICP, American Rivers 412-727-6130; lh-segedy@americanrivers.org.

**Project Location:** Kladder Dam, UNT Frankstown Branch, Frankstown Township, Blair County. Coordinates: 40.3898, -78.3886

**Project Overview:** Kladder Dam, owned by Hollidaysburg Borough, provided water supply until 1994 when it was abandoned after updated DEP regulations for public water supplies posed compliance issues. American Rivers was contacted by the owner in 2010 regarding dam removal, and in 2011, a pre-dam removal stream survey conducted by PFBC identified a thriving population of wild brook trout in this unassessed stream. Hollidaysburg Borough's general municipal services engineer completed the first

dam removal design, however it was determined by DEP Dam Safety to be insufficient for permitting due to stream stability and gradient issues. American Rivers then used foundation funding to provide a dam removal design and permitting, the plans for which incorporated Large Wood Debris for stream stability and gradient control. During the field work to inform design, an unknown, partially breached dam was discovered about 900 feet upstream of the Kladder Dam. This previously-unknown dam was added to the project scope since our design

consultant determined it to be a fish passage barrier. With design

complete, American Rivers partnered with PA Fish & Boat Commission for construction funding. When a request for funding from a natural resources damage settlement was declined, PA Fish & Boat

Commission provided a portion of the construction funding, and American Rivers applied for EBTJV to provide the construction balance.

Accomplishments to date: Kladder Dam was removed in September 2014 and the tributary through the former impoundment was restored to an appropriate gradient to match the watershed. Stream restoration materials included native soil and rock, clay from the dam's core, sediment from behind the dam, and Large Wood Debris, all originating on the site. In addition, a riparian corridor was planted in the former impoundment, and several rock jack-dams and brick lining in about 100 feet of the stream channel above the former impoundment were removed by hand. The brick were stockpiled for reuse by Hollidaysburg Borough. These activities exhausted the available budget.

American Rivers secured additional funding and returned to the site in 2015 to complete the removal of the upstream unnamed partially breached dam and restore the stream channel through the uppermost former impoundment to provide fish passage.

During the 2015 construction effort, the upper unnamed dam was removed and the impacted stream reach was stabilized using Large Woody Debris techniques. One remaining small brick and stone jack dam located between the two former dams was removed using the excavator. We notched several of the cross-logs in the lower former impoundment area to achieve a more favorable gradient after the stream adjusted a little lower than the designers anticipated. In addition, we visually monitored the riparian corridor plantings for survivability and found 90% of trees and shrubs growing.

Please see attached map for clarifications on project work completed with EBTJV funds in 2014 and the additional project work completed with NFWF funds in 2015.

**2012 EBTJV expenditures:** The full \$25,000 EBTJV grant was expended in September, 2014. Additional funds from NFWF totaling \$24,000 were expended in 2015, matched with \$6000 in funding from American Rivers, to complete the project.

## Photo documentation: Please see photos below.



Upper dam and impoundment, before



After



Upstream view of impoundment, before



After



Removing jack dam between two former dams



Notched cross-log in downstream former impoundment

