Final Grant Report
Tubmill Trout Club, Florek Farm Phase- I & II
August 04, 2017 completion

All grantees are required to complete a final report and final expense form upon completion of the project. CHP Implementation projects are unique as are their outcomes, outputs, and measures of success. However, the following information will be expected as part of the final project report:

- Before and after photos of the project site(s)

Project summary

Project Name: Florek Farm, Phase – I&II
Project Address: 179 Midget Camp Road, Bolivar Pa 15923
Project Location: Westmoreland County, Fairfield Township
Project Description: 1500 feet of habitat renewal within Hendricks Creek

Project outcomes

All Florek Farm Phase –I&II project objectives have been met and considered complete. Project started as scheduled August 17 and finished August 25, 2017. Project partner Greg Schaetzle, Watershed Project Manager with the Western Pennsylvania Conservancy (WPC), Mark Sausser, Habitat manager with the Pennsylvania Fish & Boat Commission (PFBC) began with a pre construction safety meeting informing and instructing all volunteer participants about work to be done and safe proper procedures while working and discussed Covid -19 protocall. All workers were issued safety glasses, hard hats, gloves and hi-visible vests before work began. The scope of work description defers to the ***Fish Habitat Plan*** by Mark Sausser, included in the original grant submittal. The first day of the 7 day project worked between location 0'>300'. Crew members created a Single Log Vane, a Modified Mud Sill, 2- framed log deflectors, boulder bank stabilization and began constructing a Framed Log Cross Vane. The second day of work between location 300' > 700'. Crews completed the Framed Log Cross Vane at location 300', then built a series of 4 Log Framed Stone Deflectors and one Framed Log Cross Vane with continuous boulder bank stabilization. Our third day crews worked from 700'>1000', completing two additional Framed Cross Log deflectors, with a continuous Modified Mud Sill between the two cross vanes in lieu of framed log deflectors. Day four continued with constructing a continuous Mud Sill between two two cross vanes from location 1,000'>1,300' with all devices backfilled using R-6 rock. Day five crew

worked 1,300>1,500 completing a Framed Log Cross Vane then building a Modified Mudsill a Single Log Vane and one Log Framed Stone Deflector thus completing all devices to be constructed within this project. Day six was used for total project rough and fine grading, topsoil restoration and debris removal. Day seven crews finished seeding and mulching.

Outcomes achieved:

a. Arresting soil erosions throughout this project, Achieved by placing modified Mud Sills and stabilizing bank boulders.
b. Reducing stream width to 12-15 feet in over widened areas that approached widths of 35 feet.
c. Increasing stream rate of flow by narrowing width.
d. Increase oxygenation percentages and lower stream temperatures by constructing cross vanes and plunge holes.
e. Decrease sediment stream bed "choking" with the increased rate of flow.
f. Created sustainable trout habitat for future trout recruitment.
g. Create usable habitat for more diverse insect and stream inhabitant life. Achieved by instituting all the above points.

Project sustainability

a. **Long-term sustainability of the project as implemented.** Presently a small funded sustainability account exists. As agreements expire our partner group will evaluate long-standing success of a particular project and design upgrades and additions as needed. Signed agreements exist with all parties involved. Establishing a "maintenance account" will be included in future funding requests.

b. What are potential threats to sustainability? Natural flooding is always considered a potential problem. Other possibilities include pipe-line construction and Marcellus drilling debacles and poor farming practices.

c. **Monitoring, operation and maintenance plans.** Landowner is our first monitor. Secondly Tubmill Trout Club Unlimited members stock trout in all our completed projects. Feedback concerning repair or future modifications is encouraged from both parties. Landowner and TTCU have signed operation and maintenance agreements for a period of ten years, in which the landowner will not alter or disturb the installed devices.

Next phase or future projects

a. **Would this project benefit from an additional "phase?" Describe any future efforts that would increase the benefits of current project.** Additional Florek Farm plans are being developed for landowner consideration. There have been many inquiries from landowners along Hendricks Creek.

List partners and volunteers and describe their involvement in the project including number of people, number of donated or in-kind hours, etc.

Partners included:

a. Tubmill Trout Club having 3-4 participants donating 4-8 hours each day, each man.

b. Western Pennsylvania Conservancy having 3 (WPC) paid personnel and 3 contracted personnel at 10 hours each day each man.

c. Pennsylvania Fish and Boat Commission having 4 paid personnel at 8 hours each day each man.

Accomplishments and Outputs

a. Observed or measured improvement to overall condition of the stream or watershed:

As mentioned this section of stream was totally void of suitable habitat. Now exists a stream having true potential with a narrowed, deepened, faster flowing channel. We expect 70-100 tons annually of sediment removed from channel and deposited onto stream edges. We also expect fishermen to welcome the many changes created to accommodate trout being stocked in this stream.

b. Riparian buffer projects and natural stream channel projects:

i. Number of linear feet/acres improved. 1500 feet of stream channel, 1600 feet of stream banks.

ii. Number of structures placed, if applicable. – 6-Log Framed Cross Vanes, 11 – Log Framed Deflectors, 3 – Single Log deflectors, 3 – Log Framed Cross Vane with rock throat, 4 – Modified Mudsill, 25-30 Random Boulder placement

Pre Construction photos:

Pre construction photos

Pre construction photos:

Pre Construction Photos :Pre Construction photos :

Pre construction photos :