

**PACD Engineering Technical Assistance Program
Final Report Highlights
December 2015 to July 2017**

Project Summary

The PACD Engineering Technical Assistance Program launched in 2001 to provide quality engineering technical assistance to Pennsylvania's conservation community in order to reduce nonpoint source pollution. Any entity eligible to receive a Growing Greener grant is eligible for PACD engineering technical assistance, including watershed organizations, county conservation districts, 501(c)3 non-profit organizations, municipalities, and educational institutions.

Since its inception, the program has continued to provide quality engineering technical assistance to the conservation community, thus helping to reduce nonpoint source pollution throughout the state of Pennsylvania. All conservation partners receiving assistance from the program have received quality engineering assistance in a timely manner. All areas of the state are free to use the program and use of the program continues to be high.

During this grant period, the PACD Engineering Assistance Program provided engineering technical assistance for 251 individual projects statewide, including 19 abandoned mine drainage projects, 25 stream corridor restoration projects, and 206 agricultural projects.

Each project offers its own unique challenges, and PACD staff work with project partners to identify and overcome these challenges using the most up-to-date methods available. Funded construction projects worth an estimated total of \$7.9 million currently awaiting PACD engineering assistance statewide, which indicates a strong need for continued funding.

Example Photos

Photos show a stream restoration and habitat improvement project in Cambria County.



Before



After



Estimated Improvements

The ultimate goal of the PACD Engineering Assistance Program is to reduce nonpoint source pollution. During this grant period, program staff completed projects across the state that conserve, restore, and enhance natural resources. Estimated improvements from these projects total:

Abandoned Mine Drainage:

- 10.8 million gallons per day (MGD) of mine water treated
- 448 tons annually of acidity removed
- 3,700 tons annually of iron removed
- 42 tons annually of aluminum removed
- 1,170 tons annually of manganese removed

Stream Corridor Restoration:

- 24,200 linear feet of streambank restored

Agricultural BMPs:

- Management of 94,603 tons of manure annually (70,471 tons annually in the CBW)
- 431,340 square feet of heavy use area installed (294,076 square feet in the CBW)
- 39,003 linear feet of clean water pipelines (25,339 linear feet in the CBW)
- 2,950 linear feet of clean water diversions (1,870 linear feet in the CBW)
- 25,647 linear feet of waste transfer pipelines (15,623 linear feet in the CBW)
- 295,407 square feet of improved access areas, trails, and animal walkways (248,642 square feet in the CBW)
- 274,789 square feet of vegetated filter area (222,350 square feet in the CBW)
- 27,960 linear feet of management fencing (19,468 linear feet in the CBW)
- 15 animal crossings (12 in the CBW)