

*"Watershed Specialist Top Project Survey" Response*

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County: EXAMPLE

Respondent: Bruce Golden Position: WPCAMR, Email: bruce@wpcamr.org,

Current Watershed Specialist: Andy M Years on job: 3

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Projects:

A: Project 1 Title

B: Project 2 Title

C: Project 3 Title

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 781079787 Collector: 9206244

User Created: 4/27/2009 3:56:18 PM, User Last Accessed: 4/27/2009 4:22:00 PM,

User Computer I.P. 24.3.72.242

Sent to: bruce@wpcamr.org, Bruce Golden, WPCAMR

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Merge Record 1

*"Watershed Specialist Top Project Survey" Response*

*EXAMPLE Project A*

*Title: Project 1 Title*

*Municipality: Municipality*

*Watershed: Watershed*

*Completed: Year*

*Cost: Cost*

*Funding Source(s): Funding Source(s)*

*Watershed Specialist: Watershed Specialist (if not current)*

*Categories: Abandoned Mine Reclamation, Agricultural Conservation, Dirt & Gravel Roads, Other: Other  
(please specify)*

*Narrative:*

*Brief description of Project 1 including partnerships, environmental outcomes, and role of Watershed Specialist.*

*"Watershed Specialist Top Project Survey" Response*

EXAMPLE Project B

*Title: Project 2 Title*

*Municipality: xxxxxxx*

*Watershed: xxxxxxx*

*Completed: xxxxxxx*

*Cost: xxxxxxx*

*Funding Source(s): xxxxxxx*

*Watershed Specialist: xxxxxxx*

*Categories: Envirothon, Erosion & Sedimentation, Floodplain Monitoring, Other:*

*Narrative:*

*4. Brief description of Project 2 including partnerships, environmental outcomes, and role of Watershed Specialist.*

*"Watershed Specialist Top Project Survey" Response*

EXAMPLE Project C

Title: Project 3 Title

Municipality: yyyyyyyyy

Watershed: yyyyyyyyy

Completed: yyyyyyyyy

Cost: yyyyyyyyy

Funding Source(s): yyyyyyyyy

Watershed Specialist: yyyyyyyyy

Categories: Wetlands, Watershed Protection, Watershed Planning, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Clearfield

Respondent: Kelly Williams Position: Watershed Specialist, Email: kwilliamsccd@atlanticbbn.net,

Current Watershed Specialist: Kelly Williams Years on job: 3 months

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Projects:

A: Upper West Branch Triathlon and Conservation Celebration

B: Watershed Group Start Up and Support

C: Watershed Assessments

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 797574230 Collector: 9226753

User Created: 5/21/2009 1:31:23 PM, User Last Accessed: 5/22/2009 7:56:03 PM,

User Computer I.P. 207.255.156.238

Sent to: kwilliamsccd@atlanticbbn.net, Kelly Williams, Clearfield-WS

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Merge Record 2

*"Watershed Specialist Top Project Survey" Response*

Clearfield Project A

Title: Upper West Branch Triathlon and Conservation Celebration

Municipality: Held in Curwensville at Curwensville Lake

Watershed: West Branch of Susquehanna

Completed: Annual Events

Cost: Approx. \$500 each

Funding Source(s): Triathlon funded by participants and sponsors, Conservation Celebration funded by Triathlon

Watershed Specialist: Donna Carnahan, Rachel Kester, Kelly Williams

Categories: , , , Other: Watershed Educational Events

Narrative:

The Upper West Branch Triathlon was started in 2005, the year the West Branch of the Susquehanna was River of the year. The Triathlon was initially started to generate interest in and showcase the Susquehanna River Watershed and the natural resources in Clearfield County. Starting and ending at Curwensville Lake, participants run 4.4 miles, canoe 5 miles, and bike 16 miles throughout central Clearfield County. Participation has steadily increased each year. The Watershed Specialist is the driving force behind the Triathlon. Donna Carnahan, Clearfield's first Watershed Specialist, began the event and was instrumental in designing the course, generating interest in the event, and coordinating volunteers. The subsequent Watershed Specialists, Rachel Kester and Kelly Williams, have also become greatly involved and now all three work closely with one another and other Clearfield County Conservation District employees to hold the Triathlon annually. Since 2006, funds generated by the Triathlon were put into the Conservation Celebration which is a full day of free, fun, and educational events meant to generate interest in the Susquehanna River Watershed and educate the public on protecting and conserving our natural resources. Activities include stream dynamics demonstrations, live reptiles and amphibians, canoe and kayak demos, fishing and fly tying instruction, arts and crafts, turkey calling, face painting, games and prizes, and a visit from Smokey the Bear. The Conservation District partners with Pennsylvania Fish and Boat Commission, McCracken Canoe, Allegheny Mountain Chapter of Trout Unlimited, the National Wild Turkey Federation, 4-H Hot Shots, Cub Scout Pack 10, and many others. Each year the Watershed Specialist manages the Conservation Celebration by coordinating with volunteers and presenters, planning activities, and advertising for the event.

*"Watershed Specialist Top Project Survey" Response*

Clearfield Project B

Title: Watershed Group Start Up and Support

Municipality: Throughout Clearfield County

Watershed: West Branch of Susquehanna River and the Ohio River Basin

Completed: On-going

Cost: Approx. \$2000 per group

Funding Source(s): Growing Greener Start Up Grants

Watershed Specialist: Donna Carnahan, Rachel Kester, Kelly Williams

Categories: Watershed Group Support / Capacity Building, Watershed Protection, Abandoned Mine Reclamation, Other:

Narrative:

Prior to the existence of a Watershed Specialist, interest in cleaning up the streams in Clearfield County was limited to a handful of sportsmen's groups. Now, there are over twelve active watershed groups in the county. Since 2001, the Clearfield Co. Watershed Specialists have worked with interested members of the community to start the Deer Creek Watershed Association, Montgomery Run Watershed Association, Moshannon Creek Watershed Coalition, Morgan Run Watershed Association, and assisted the Jefferson Co. Watershed Specialist with the Sandy Lick Conservation Initiative. First Donna, then Rachel, and now Kelly provide support to these and other organizations including the Clearfield Creek Watershed Assoc., Anderson Creek Watershed Assoc., Mosquito Creek Sportsmen, Hubler Run Watershed Assoc., Emigh Run/Lakeside Watershed Assoc., Allegheny Chapter of Trout Unlimited, and others. This support includes conducting watershed assessments, sampling water, monitoring streams, securing funding for watershed projects, and increasing membership by reaching out to the local communities. Thanks to the efforts of these watershed associations, numerous miles of streams affected by Abandoned Mine Drainage are coming back to life.

*"Watershed Specialist Top Project Survey" Response*

Clearfield Project C

Title: Watershed Assessments

Municipality: Throughout Clearfield County

Watershed: West Branch of Susquehanna

Completed: 2001 - Present

Cost: \$10,000 - \$50,000

Funding Source(s): Growing Greener

Watershed Specialist: Donna Carnahan, Rachel Kester, Kelly Williams

Categories: Watershed Protection, Abandoned Mine Reclamation, Grant Writing, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Union

Respondent: Shanon Burkland Stamm Position: Watershed Specialist, Email: sburkland@unionco.org,

Current Watershed Specialist: Shanon Burkland Stamm Years on job: 5.75

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Projects:

A: White Deer Creek Stream Restoration Project

B: Assessment of Aq Impaired Streams and Watershed Implementation Plan Development for Buffalo Creek

C: Assessment, Design, and Construction of Buffalo Creek Acid Deposition Remediation Project

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 796206607 Collector: 9226753

User Created: 5/19/2009 6:08:50 PM, User Last Accessed: 5/21/2009 7:18:11 PM,

User Computer I.P. 209.50.143.193

Sent to: sburkland@unionco.org, Shanon Burkland, Union-WS

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Merge Record 3

*"Watershed Specialist Top Project Survey" Response*

Union Project A

Title: White Deer Creek Stream Restoration Project

Municipality: White Deer Township

Watershed: White Deer Creek

Completed: 2007

Cost: 295000

Funding Source(s): Growing Greener, Western PA Watershed Protection Program (now Foundation for PA Watersheds), PennDOT, Canaan Valley Institute, National Fish and Wildlife Foundation, White Deer Chapter of the National Historic Railway Authority, Susquehanna Economic Development Association-Council of Governments

Watershed Specialist: Shanon Burkland Stamm --default

Categories: Streams & Lakes, , , Other: Natural Stream Channel Design

Narrative:

After several years of studying, meetings, negotiations, permitting, and grant writing Phase 1 of the White Deer Creek Stream Restoration project became a reality thanks to the involvement of 13 project partners and willing landowners. An innovative natural stream channel design approach relying on fluvial geomorphic principles was used in the reconstruction and stabilization of a high quality cold water fishery. The District consultant for the project, Skelly and Loy, Inc., found that historically White Deer Creek, within the project area, was drastically straightened and nonnative fill material was placed along the banks to reconstruct a stream channel and provide flood protection for the existing infrastructure. The historic channelization in this reach had caused the channel to entrench resulting in several impacts including rapidly failing banks and sediment transport issues. The objectives of the project were to 1) restore the existing stream channel to a more natural and stable state, 2) to reduce bank erosion and sediment deposition within the project reach, 3) to enhance sediment transport, 4) to restore a healthy aquatic ecosystem within the project reach, 5) to improve the existing riparian buffer with native vegetation, 6) to protect existing infrastructure and residential properties, and 7) to provide increased recreational opportunities within the project reach. The completion of Phase 1 has resulted in a portion (1050 ft.) of restored stream channel that meets these objectives. Construction occurred in the fall of 2006 and 2007 and included 2 cross rock veins, flood sills, boulder toe and bank revetment, 2 stone stair stream access points, removal gravel bars, native plantings, and the removal of an unaligned, out-of-service railroad pier. This project was identified in a comprehensive watershed assessment conducted by Skelly and Loy, Inc. and was initiated by the White Deer Creek Watershed Association in 2003.

*"Watershed Specialist Top Project Survey" Response*

Unfortunately this proved to be an overwhelmingly complex project and led to the dissolution of the WDCWA. Too many resources and partners existed to let the project fail therefore the Union County Conservation District Watershed Specialist followed through with the implementation, including obtaining additional partners and all work associated with permitting through construction . In addition to the District, partners included: White Deer Creek Watershed Association, Skelly and Loy, Inc., U.S. Fish and Wildlife Service, DEP Growing Greener, Canaan Valley Institute, PennDOT, National Fish and Wildlife Foundation, Susquehanna River Heartland Coalition, Western PA Watershed Protection Program, U.S. EPA, White Deer Chapter of the National Historic Railway Authority, and Susquehanna Economic Development Association-Council of Governments. The District and project partners through grants and in-kind services completed a project worth \$295,000.

*"Watershed Specialist Top Project Survey" Response*

Union Project B

Title: Assessment of Aq Impaired Streams and Watershed Implementation Plan Development for Buffalo Creek

Municipality: Hartley, Lewis, West Buffalo, Buffalo, Kelly, White Deer Townships; Mifflinburg and Lewisburg

Watershed: Buffalo Creek

Completed: 2008

Cost: 50000

Funding Source(s): Section 319

Watershed Specialist: Shanon Burkland Stamm --default

Categories: Watershed Planning, , , Other: Section 319 WIP Development

Narrative:

In an effort to begin to improve the water quality of the reaches of streams that have been identified as impaired by agricultural sources, the Union County Conservation District cosponsored, together with the Buffalo Creek Watershed Alliance, a project to assess and create a Watershed Implementation Plan for this DEP North Central Regional Office priority watershed. The Union County Watershed Specialist wrote a grant for approximately \$45,000 to Growing Greener/Section 319 to hire an Agricultural Environment Specialist to conduct on-farm environmental assessments, work with conservation partners in assisting with computer modeling of environmental conditions, and assist landowners with best management practice identification and implementation in the Buffalo Creek Watershed. The Buffalo Creek WIP has been completed and adopted by EPA as of December 2008 with a total project value around \$50,000. Additionally, the Union County Watershed Specialist wrote a second grant to the same source and has been successful in securing \$235,000 for implementation of BMPs listed in the WIP. The District was successful in keeping and hiring the Agricultural Environment Specialist; he is now the Chesapeake Bay Technician and is continuing these efforts with the assistance of the Watershed Specialist to implement the Aq BMPs. Subsequently, a TMDL has just been created for Buffalo Creek due to the efforts of all the project partners. Other project partners include the Buffalo Creek Watershed Alliance and Bucknell University, whom are assisting with education efforts and stream monitoring requirements.

*"Watershed Specialist Top Project Survey" Response*

Union Project C

Title: Assessment, Design, and Construction of Buffalo Creek Acid Deposition Remediation Project

Municipality: Hartley

Watershed: Buffalo Creek

Completed: Anticipated for 2009\*

Cost: 400000

Funding Source(s): Growing Greener Grant, County Environmental Initiative (via Growing Greener funds), Foundation for PA Watersheds

Watershed Specialist: Shanon Burkland Stamm --default

Categories: Streams & Lakes, , Other: Acid Deposition Treatment System

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Jefferson

Respondent: Amber Siar Position: Watershed Specialist, Email: acgillung@windstream.net,

Current Watershed Specialist: Amber Siar Years on job: 3

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Projects:

A: Manners Dam Run Watershed Liming Project

B: Sugar Camp Run Discharge as a Municipal Water Supply Phases I and II

C: Environmental Education

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 795209090 Collector: 9226753

User Created: 5/18/2009 3:13:04 PM, User Last Accessed: 5/18/2009 5:26:15 PM,

User Computer I.P. 98.21.72.97

Sent to: acgillung@windstream.net, Amber Siar, Jefferson-WS

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Merge Record 4

*"Watershed Specialist Top Project Survey" Response*

Jefferson Project A

Title: Manners Dam Run Watershed Liming Project

Municipality: Snyder Township

Watershed: North Fork Watershed

Completed: 2009

Cost: 49766

Funding Source(s): Growing Greener

Watershed Specialist: Amber Siar --default

Categories: Streams & Lakes, , , Other: Acid Deposition Remediation

Narrative:

Partnerships include the Jefferson County Conservation District, North Fork Watershed Association and the Pennsylvania Game Commission. Approximately 1500 tons of lime have been spread on the forest floor of the Manners Dam Run Watershed. The pH of the stream has seen a significant increase and there is now evidence of native trout reproducing in the stream that was not evident before the project began. The Watershed Specialist coordinated the project, helped with water, soil and vegetation sampling, helped with PR and education regarding the project.

*"Watershed Specialist Top Project Survey" Response*

Jefferson Project B

Title: Sugar Camp Run Discharge as a Municipal Water Supply Phases I and II

Municipality: Sykesville Borough

Watershed: Mahoning Creek

Completed: 2009

Cost: 205413

Funding Source(s): Growing Greener and CEI Growing Greener Grants

Watershed Specialist: Todd Beers and Amber Siar

Categories: Abandoned Mine Reclamation, Renewable Resources/Recycling, , Other:

Narrative:

Partnerships include: Jefferson County Conservation District, Representative Sam Smith, Sykesville Borough, Jefferson County Commissioners, Sykesville Lions Club, and Sykesville Volunteer Fire Department. Phase I of this project was to determine the feasibility of using the mine pool water of the Sugar Camp Run Discharge as a municipal water supply to the Borough of Sykesville who currently purchases their water from the city of Dubois. Phase II is currently underway and will relocate discharge to an area more conducive to a treatment system. Watershed Specialist was instrumental in coordination, water sampling, PR and education.

*"Watershed Specialist Top Project Survey" Response*

Jefferson Project C

Title: Environmental Education

Municipality: All Jefferson County Municipalities

Watershed: All

Completed: On-going

Cost:

Funding Source(s): PACD mini-grants, DEP EnvEd., WREN

Watershed Specialist: Jessica Traister, Todd Beers, Amber Siar

Categories: Nonpoint Source Pollution Education, Erosion & Sedimentation, Watershed Protection, Other: Source Water Protection

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: York

Respondent: Gary R Peacock Position: Watershed Specialist, Email: gpeacock@yorkccd.org,

Current Watershed Specialist: Gary R Peacock Years on job: 10

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Projects:

A: Organizing & Forming the Watershed Alliance of York, Inc. (WAY)

B: Formation of Codorus Endowment & USACE WRDA Sec 206 & 1135 Feasibility Studies

C: Headwaters Environmental Legacy Program for Small Streams (HELP-Streams)

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 793216417 Collector: 9226753

User Created: 5/14/2009 8:44:35 PM, User Last Accessed: 5/19/2009 7:52:59 PM,

User Computer I.P. 74.94.37.125

Sent to: mkimmel@yorkccd.org, Mark Kimmel, York-DM

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Merge Record 5

*"Watershed Specialist Top Project Survey" Response*

York Project A

Title: Organizing & Forming the Watershed Alliance of York, Inc. (WAY)

Municipality: 72

Watershed: Yellow Breeches, Conewago, Codorus & Kreutz-Muddy

Completed: 2002

Cost: 25000

Funding Source(s): Growing Greener

Watershed Specialist: Gary R Peacock --default

Categories: Watershed Group Support / Capacity Building, Watershed Planning, Watershed Protection,  
Other: Advocacy, education & outreach

Narrative:

WAY is a coalition of stakeholders committed to being innovative leaders encouraging watershed-based planning, restoration and protection in York County and beyond. Partners include 35 conservation, environment and watershed groups, 27 MS4 municipalities, 25 businesses, 25 local state and federal agencies, and other stakeholder groups. WAY and Watershed Specialist has help leverage over \$10 million dollars in watershed-related contributions, onation, grants, and in-kind products and services.

*"Watershed Specialist Top Project Survey" Response*

York Project B

Title: Formation of Codorus Endowment & USACE WRDA Sec 206 & 1135 Feasibility Studies

Municipality: 35

Watershed: Codorus Creek

Completed: 2006

Cost: 5000000

Funding Source(s): Water Resource Development Act

Watershed Specialist: Gary R Peacock --default

Categories: Watershed Planning, Watershed Protection, Wetlands, Other: Natural stream channel design restoration

Narrative:

Watershed Specialist provided education, outreach and technical assistance to York County Community Foundation establishing the Codorus Endowment. The Endowment was used to coordinate work with the USACE-Baltimore District and finance two WRDA Feasibility Studies of the Codorus Watershed for ecological restoration and flood control. Partners included WAY, CCWA, CCIP, CCTU, IWLA-York, City of York, York County, and 35 local municipal governments.

*"Watershed Specialist Top Project Survey" Response*

York Project C

*Title: Headwaters Environmental Legacy Program for Small Streams (HELP-Streams)*

*Municipality: 72*

*Watershed: Yellow Breeches, Conewago, Codorus, Kreutz-Muddy, Deer & Gunpowder*

*Completed: On-going*

*Cost: 25000*

*Funding Source(s): Codorus Endowment & Chesapeake Bay Commission*

*Watershed Specialist: Gary R Peacock --default*

*Categories: Watershed Protection, Nonpoint Source Pollution Education, Permitting Assistance, Other: Headwater stream bank rehabilitation & protection*

*Narrative:*

*12:00:00 AM*

*"Watershed Specialist Top Project Survey" Response*

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County: Perry

Respondent: Sally Tengeres Position: Watershed Specialist, Email: stengeres@perryco.org,

Current Watershed Specialist: Sally Tengeres Years on job: 6

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Projects:

A: Development of a District Website

B: Perry County Recycling Program

C: Pa CleanWays Chapter

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 793130938 Collector: 9226753

User Created: 5/14/2009 7:15:24 PM, User Last Accessed: 5/14/2009 8:04:03 PM,

User Computer I.P. 66.59.110.101

Sent to: stengeres@perryco.org, Sally Tengeres, Perry-WS

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Merge Record 6

*"Watershed Specialist Top Project Survey" Response*

Perry Project A

Title: Development of a District Website

Municipality: n/a

Watershed:

Completed: 2006

Cost:

Funding Source(s): SEDA-COG, PACD, Perry Conservation District

Watershed Specialist: Sally Tengeres --default

Categories: Nonpoint Source Pollution Education, Watershed Protection, Agricultural Conservation,  
Other:

Narrative:

A website allows the Perry Conservation District to offer educational resources to residents about environmental issues such as non-point source pollution, watersheds, water quality, BMPs and regulations pertaining to waters of the commonwealth. It also provides the District with a means to provide timely announcements about upcoming events such as field days, special collections and changes to the recycling program. The Watershed Specialist was instrumental in obtaining funding through grants from SEDA-COG and PACD to launch the website. She also gathered, organized, and selected topics to be included on the website and currently is administrator of the website.

*"Watershed Specialist Top Project Survey" Response*

Perry Project B

Title: Perry County Recycling Program

Municipality: County wide

Watershed:

Completed: on going

Cost:

Funding Source(s): County, Conservation District, DEP, Residents

Watershed Specialist: Sally Tengeres --default

Categories: Renewable Resources/Recycling, Watershed Protection, Streams & Lakes, Other:

Narrative:

The Recycling Program in Perry County is funded through a partnership between the Conservation District, DEP, and the County of Perry. Funding is also received through a administrative fee paid by landfills. The Watershed Specialist is the Recycling Coordinator for Perry County. The WS manages the program, an is responsible for administering the section 901,902,903 and 904 grants along with the Household Hazardous Waste Grants for special collections. Perry County has nine drop-off sites that are managed by volunteers. Each site is open once a month on a Saturday morning. Since taking on the program the Watershed Specialist has been instrumental in the addition of three new drop-off locations, and the addition of electronics and household hazardous waste collections.

*"Watershed Specialist Top Project Survey" Response*

Perry Project C

Title: Pa CleanWays Chapter

Municipality: County wide

Watershed:

Completed: Started 2009

Cost:

Funding Source(s): County, Pa CleanWays, PennDot, DEP, Community Foundation of Perry, many volunteers

Watershed Specialist: Sally Tengeres --default

Categories: Watershed Protection, Nonpoint Source Pollution Education, Streams & Lakes, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Berks

Respondent: Ryan Zerbe Position: Watershed Specialist, Email: rzerbe@countyofberks.com,

Current Watershed Specialist: Ryan Zerbe Years on job: 5

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Projects:

A: Schuylkill Action Network - Targeted Watershed Initiative Grant - Maiden Creek

B: Maiden Creek Source Water Protection Plan

C: Agriculture Center Stormwater Retrofit Project

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 792758929 Collector: 9226753

User Created: 5/14/2009 1:05:00 PM, User Last Accessed: 5/15/2009 2:33:36 PM,

User Computer I.P. 12.111.199.2

Sent to: jravert@countyofberks.com, John Ravert, Berks-DM

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Merge Record 7

*"Watershed Specialist Top Project Survey" Response*

Berks Project A

Title: Schuylkill Action Network - Targeted Watershed Initiative Grant - Maiden Creek

Municipality: Various

Watershed: Maiden Creek

Completed: 2008

Cost: 315000

Funding Source(s): EPA

Watershed Specialist: Ryan Zerbe --default

Categories: Watershed Protection, Agricultural Conservation, Nonpoint Source Pollution Education,  
Other: nutrient management

Narrative:

Through funding from EPA's targeted watershed initiative grant (TWIG), the watershed specialist was instrumental in acquiring landowner participation to achieve the goal of 15 farm improvement projects. The WS created the land management agreement with the land owners for this program and organized the first partnership with the local water authority to remove invasive plants on the farms. The WS educated the water authority on invasive removal and developed a strong relationship that has carried over into other projects and has resulting in an additional selling point to local farmers. This project, in addition to the previous targeted grant for the Maiden Creek has resulted in over 100,000 linear feet of streambank fencing, over 125 acres of wetland and riparian buffer protection and planting nearly 4,000 trees.

*"Watershed Specialist Top Project Survey" Response*

Berks Project B

Title: Maiden Creek Source Water Protection Plan

Municipality: Various

Watershed: Maiden Creek

Completed: on going

Cost: 241131

Funding Source(s): DEP

Watershed Specialist: Pamela Spayd & current WS

Categories: Watershed Planning, Watershed Protection, Streams & Lakes, Other:

Narrative:

The watershed specialist brought many partners together to make this effort and plan a reality for the Maiden Creek. The WS was in charge of organizing meetings and played an intregal role in creating the RAWA steering committee, prioritizing and implementing the plan once it was adopted by DEP in 2007. Due to this plan being adopted the Maiden Creek has received additional funding in the thousands of dollars for improvement work and education efforts. Three streams have been removed from the integrated waters list, drinking water supply signage were installed through a partnership with PennDot and over 19 municipalities, and the first water quality monitoring program in the area was developed in 2008. The WS worked with the water authority on water quality training, set up sampling parameters and provided guidance for the program. The WS also assisting the local watershed association (created in 2001 by the WS) to harness funding to create a watershed-wide middle school source water education program still being used today.

*"Watershed Specialist Top Project Survey" Response*

Berks Project C

*Title: Agriculture Center Stormwater Retrofit Project*

*Municipality: Bern*

*Watershed: Schuylkill River watershed*

*Completed: on going*

*Cost: 171660*

*Funding Source(s): DEP*

*Watershed Specialist: Ryan Zerbe --default*

*Categories: Stormwater Management, Nonpoint Source Pollution Education, Watershed Protection, Other:*

*Narrative:*

*12:00:00 AM*

*"Watershed Specialist Top Project Survey" Response*

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County: Lancaster

Respondent: Matthew Kofroth Position: Watershed Specialist, Email: matt.kofroth@pa.nacdnet.net,

Current Watershed Specialist: Matthew Kofroth Years on job: eight

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Projects:

A: A.K. Mann Stream Restoration Project

B: Local Watershed Association Creation (County Wide)

C: Mill Creek Watershed Implementation Plan

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 792716246 Collector: 9226753

User Created: 5/14/2009 11:58:19 AM, User Last Accessed: 5/14/2009 1:21:02 PM,

User Computer I.P. 199.144.170.42

Sent to: matt.kofroth@pa.nacdnet.net, Matt Kofroth, Lancaster-WS

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Merge Record 8

*"Watershed Specialist Top Project Survey" Response*

Lancaster Project A

Title: A.K. Mann Stream Restoration Project

Municipality: East Hempfield Twp.

Watershed: Swarr Run Watershed

Completed: 2003

Cost: 47000

Funding Source(s): DEP Section 319

Watershed Specialist: Matthew Kofroth

Categories: Watershed Protection, Agricultural Conservation, Nonpoint Source Pollution Education, Other:

Narrative:

The goal of the project was to restore over 3,000 feet of eroded streambanks in a highly agricultural area. Over 3,000 ft of fencing was installed on the project to limit livestock access, over 1,000 trees were planted by numerous volunteers, 1,500 ft of stream banks were reshaped, aquatic habitat structures were installed throughout the project (root wads, log vanes, rock cross vanes, bio logs, floodplain creation, etc.), & 4 livestock crossings were implemented. Partnerships formed during this project include working with the Pennsylvania Association of Conservation District's Engineering Assistance for design work on the project, NRCS for technical assistance, private funding came from PENNDOT, Franklin & Marshall College provided volunteers during the project planting period along with the Little Conestoga Watershed Alliance, Lancaster Academy students (alternative school) provided followup maintenance on the project along with Milton Hershey students. The role of the Watershed Specialist during this project was writing the project grant, working with the landowners and renters of the properties, gathering and filling out project permits, working with the design team, gathering supplies, contractors, and equipment for stream work, followup monitoring and maintenance on the project, and overall project oversight. The bottomline is that we are seeing significant improvements in overall water quality throughout this stream reach thanks to the work that was done. The Conservation District now uses this site as a showcase for good watershed conservation ideas.

*"Watershed Specialist Top Project Survey" Response*

Lancaster Project B

Title: Local Watershed Association Creation (County Wide)

Municipality: Numerous municipalities throughout the county

Watershed: 11 different

Completed: still ongoing

Cost: minimal

Funding Source(s): some small Growing Greener grants

Watershed Specialist: Matthew Kofroth

Categories: Watershed Group Support / Capacity Building, Nonpoint Source Pollution Education, Watershed Protection, Other:

Narrative:

Prior to 2001 there were only 4 local conservation organizations in Lancaster County working on protecting and restoring local streams and creeks. Once the Lancaster County Conservation District Watershed Specialist position was created over 12 additional local all volunteer watershed associations were born. The Watershed Specialist position was able to work with local community leaders, municipal officials, elected officials, schools, and concerned citizens to form this very influential organizations. With guidance from the Watershed Specialist these groups have implemented, over 45 riparian buffer plantings along our streams, restored over 5 miles of stream banks, cleaned up several miles of streams and creeks, removed countless invasive plants stands, fostered education of county youth through numerous programs, talked with hundreds of local residents about nonpoint source pollution issues, and have made a positive impact in the overall quality of life here in Lancaster County. Partnerships formed during these years have included the volunteers themselves, numerous schools, colleges, and universities, municipalities, local businesses, funders, NRCS, and many more. Once again the Watershed Specialist position was critical in assistancing these groups form and flourish throughout the county. This was done through educational assistance, grant writing, permittting, conflict negotiations, capacity building, local watershed forums and informational sharing sessions, & overall support. These local volunteer watershed associations have reshaped Lancaster County for the better.

*"Watershed Specialist Top Project Survey" Response*

Lancaster Project C

Title: Mill Creek Watershed Implementation Plan

Municipality: numerous

Watershed: Mill Creek

Completed: 2006

Cost: 12000

Funding Source(s): DEP Section 319

Watershed Specialist: Matthew Kofroth

Categories: Watershed Planning, Watershed Protection, Agricultural Conservation, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: McKean County

Respondent: Heather McKean Position: Watershed Specialist, Email: hsmckean@mckeancountypa.org,

Current Watershed Specialist: Heather McKean Years on job: 3

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Projects:

A: McKean County Streambank Stabilization and Habitat Improvement Initiative

B: Non-point source pollution education campaign in McKean County

C:

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 792296278 Collector: 9226753

User Created: 5/13/2009 7:46:51 PM, User Last Accessed: 6/3/2009 7:55:41 PM,

User Computer I.P. 67.58.189.66

Sent to: hsmckean@mckeancountypa.org, Heather McKean, McKean-WS

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Merge Record 9

*"Watershed Specialist Top Project Survey" Response*

McKean County Project A

Title: McKean County Streambank Stabilization and Habitat Improvement Initiative

Municipality: County-wide

Watershed: Upper Allegheny

Completed: on-going

Cost: 150000

Funding Source(s): Growing Greener II

Watershed Specialist: Heather McKean --default

Categories: Erosion & Sedimentation, Streams & Lakes, Watershed Protection, Other:

Narrative:

The McKean County Conservation District has primarily partnered with the McKean County Commissioners, PA Fish and Boat Commission, and PA Department of Environmental Protection to offer assistance to landowners with streambank stabilization issues. Other partners for this project include McKean County Juvenile Probation Boondocks program, Upper Allegheny Watershed Association, and Seneca Chapter of Trout Unlimited. This initiative is focused on helping to address critically eroding streambanks that threaten buildings and property and degrade the quality of the environment. Through this program we offer landowners technical assistance, funding to install stabilization and habitat improvement projects, and reestablish riparian areas. In 2008, the first year of implementation, 15 projects were completed and included the installation of multi-log deflectors, modified mud sills, rock vanes, and rip rap. Approximately 3000 feet of streambank was stabilized and habitat improved and an estimated 128 tons of sediment pollution prevented. Riparian planting are currently taking place on completed projects with native vegetation. An additional 15 or more stabilization projects are planned for 2009. Heather McKean, Watershed Specialist, coordinated these projects. She has helped rank project applications, written grant applications to secure funding for projects, and managed the installation of the projects.

*"Watershed Specialist Top Project Survey" Response*

McKean County Project B

Title: Non-point source pollution education campaign in McKean County

Municipality: County-wide

Watershed: Upper Allegheny

Completed: on-going

Cost: 100000

Funding Source(s): PACD mini grant, Environmental Education Grant

Watershed Specialist: Heather McKean --default

Categories: Nonpoint Source Pollution Education, Envirothon®, Grant Writing, Other: General Environmental Education

Narrative:

Heather McKean, Watershed Specialist, has helped increase participation in the local McKean-Cameron County Envirothon and added a study day for the local event. Previously, only two of the five school districts in McKean County participated in the Envirothon. Today, four school districts and a local group of home school students send at least one team to the event to learn about and test on aquatics, forestry, soils & land use, wildlife, and a current event theme. Partnerships for the Envirothon include Cameron County Conservation District, PA Game Commission, PA Fish and Boat Commission, PA DEP, PA DCNR Bureau of Forestry, Farm Service Agency, Natural Resource Conservation Service, and Penn State Extension. Heather has also helped rally local donations for supplies and food for the event. Many students gain interest in environmental health and some pursue professional careers in the listed subject areas. Heather McKean has helped to build and expand the Arbor Day educational program, "My Growing Tree". Approximately 450 first and/or second grade students in all five school districts receive an Eastern hemlock seedling to plant for Arbor Day each year. Students are also taught about the importance of watershed protection, how to prevent non point source pollution, the many roles trees play in our environment. Partners for this program include DCNR Bureau of Forestry, PACD, and local professional forester. Heather has also helped apply for grants for this program. Funding has been obtained from PACD for this valuable educational program. Heather also prepares for and participates in many other local educational events. Some of those events include: setting-up education displays at the McKean County Fair, the Senior Expo sponsored by Representative Martin Causer, and the Kid's Fest sponsored by Senator Joseph Scarnati. At these events, over 1,200 participants were educated on the negative impacts of non-point source pollution on aquatic life, water resources and the ultimate health and welfare of all citizens. Survey results from these events showed that 74% of participants are

*"Watershed Specialist Top Project Survey" Response*

concerned about water quality and 84% are concerned about adequate supplies of good drinking water, while 77% are concerned about bacteria contamination of stream water. Heather McKean also coordinated a watershed educational fair at Fretz School for the seventh grade classes of Ms. Lisa Neely. Ms. Neely contacted the District after attending the "Value of Watersheds Seminar" held at Pitt-Bradford in May. Her students have been studying watersheds and wetlands, the connectivity of water systems, stream characteristics and the comparison of fresh and salt water. District staff rotated the students through 3 different stations providing hands-on experiences about various watershed topics. The trio provided visual definitions of a watershed and the different pollution sources within our watersheds; discussed the relationship between stream health, water quality, and aquatic life by showing the students macroinvertebrates collected from a local stream; and promoted drinking water protection by demonstrating ground water contamination using a ground water flow model. Heather helped coordinate two trainings for the public interested in water quality and volunteer stream monitoring. The featured presenter was Kristen Travers, of the Stroud Water Research Center, who provided a broad overview of Aquatic Ecology, while Dave Keller, of the PA Fish & Boat Commission Habitat Division, discussed the function and implementation of stream habitat improvement structures. District Watershed Specialist, Heather McKean, demonstrated the negative impacts of nonpoint source pollution and introduced attendees to their watershed and aquatic resources. At a volunteer monitoring training, Kristen Travers, of the Stroud Water Research Center, gave an overview of Aquatic Ecology and a hands-on demonstration of stream monitoring techniques. This workshop will further develop the monitoring program implemented within the McKean County school districts. Financial and other support for these programs was provided by the Pennsylvania Association of Conservation Districts through a grant from the Pennsylvania Department of Environmental Protection under Section 319 of the Clean Water Act, administered by the U.S. Environmental Protection Agency."

*"Watershed Specialist Top Project Survey" Response*

McKean County *Project C*

*Title:*

*Municipality:*

*Watershed:*

*Completed:*

*Cost:*

*Funding Source(s):*

*Watershed Specialist: Heather McKean --default*

*Categories: , , , Other:*

*Narrative:*

*"Watershed Specialist Top Project Survey" Response*

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County: Northampton

Respondent: James Wilson Position: Watershed Specialist/Agricultural Technician, Email: james-wilson@northamptoncd.org,

Current Watershed Specialist: James Wilson Years on job: 10 Months

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Projects:

A: Coordination & Establishment of Bertsch-Hokendauqua-Catasauqua Watershed Association

B: Fry's Run Coldwater Conservation Plan Implementation Project

C: Fry's Run Coldwater Conservation Plan

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 792205784 Collector: 9226753

User Created: 5/13/2009 6:31:58 PM, User Last Accessed: 5/13/2009 8:33:37 PM,

User Computer I.P. 207.96.50.30

Sent to: james-wilson@northamptoncd.org, Jim Wilson, Northampton-WS

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Merge Record 10

*"Watershed Specialist Top Project Survey" Response*

Northampton Project A

Title: Coordination & Establishment of Bertsch-Hokendauqua-Catasauqua Watershed Association

Municipality: Boroughs of Catasauqua, North Catasauqua, Northampton & Walnutport; Townships of Hanover, Allen, East Allen, Lehigh & Moore

Watershed: Bertsch, Hokendauqua & Catasauqua Creek Watersheds in the Greater Lehigh River Watershed

Completed: 2009

Cost: No cost to startup; have been approved \$14,918 for Surface Water Assessments on BHCWA Region waterways

Funding Source(s): PA DEP

Watershed Specialist: James Wilson

Categories: Watershed Group Support / Capacity Building, Grant Writing, Nonpoint Source Pollution Education, Other:

Narrative:

Coordination & establishment of Northampton County's sixth community watershed organization, which will serve to protect & improve the water resources & quality of life fo the many thousands of people who live, work & play in the boroughs & townships that encompass the 80-square-mile region drained by the Bertsch, Hokendauqua & Catasauqua creeks and adjacent streams. Association partners include local municipal officials, educators & businessmen & women from the region. The primary goal of this volunteer community watershed organization is to ensure that there's enough clean, safe drinking water for families who live in the region today, tomorrow and for future generations yet to come. The watershed specialist has & continues to coordinate & facilitate monthly association meetings & develops meeting agendas; drafted association mission statement, charter & bylaws; developed grant proposal for surface water assessments as the association's first watershed project; & continues to move the just-recently-established organization forward.

*"Watershed Specialist Top Project Survey" Response*

Northampton Project B

Title: Fry's Run Coldwater Conservation Plan Implementation Project

Municipality: Williams Township

Watershed: Fry's Run Watershed, Delaware River Basin

Completed: Will be completed in 2010

Cost: 14883

Funding Source(s): PA League of Women Voters, PACD, NRCS, Williams Township, Northampton County Conservation District, Fry's Run Watershed Association

Watershed Specialist: James Wilson

Categories: Watershed Protection, Nonpoint Source Pollution Education, Grant Writing, Other:

Narrative:

To build a coalition of stakeholders that will develop & implement an education & outreach program aimed at supporting & executing the recommendations for protecting water resources in Williams Township, which are outlined in the Fry's Run Coldwater Conservation Plan that was developed for the Fry's Run Watershed Association by the Northampton County Conservation District in 2008. Project outcomes include production & distribution of nonpoint source pollution education packets, a homeowners' workshop on water protection, meetings with farmers to assess current ag practices & recommend BMPs to maximize water resource protection, and the review of Williams Township's SALDO & recommendations for updating water protection ordinances. Project partners include Williams Township, Fry's Run Watershed Association, PACD, PA DEP, NRCS & WREN. The watershed specialist developed the grant proposal & will coordinate the project.

*"Watershed Specialist Top Project Survey" Response*

Northampton Project C

*Title: Fry's Run Coldwater Conservation Plan*

*Municipality: Williams Township*

*Watershed: Fry's Run Watershed, Delaware River Basin*

*Completed: 2008*

*Cost: 35000*

*Funding Source(s): Northampton County Conservation District, PA Coldwater Heritage Partnership, Williams Township*

*Watershed Specialist: Kate Brandes*

*Categories: Watershed Planning, Watershed Protection, Nonpoint Source Pollution Education, Other:*

*Narrative:*

*12:00:00 AM*

*"Watershed Specialist Top Project Survey" Response*

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County: Cameron

Respondent: Todd Deluccia Position: Watershed Specialist, Email: cameron.water@yahoo.com,

Current Watershed Specialist: Todd Deluccia Years on job: 2 years 9 months

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Projects:

A: Clear Creek Restoration

B: Sterling Run Restoration

C: Invasive Plant Control

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 791865895 Collector: 9226753

User Created: 5/13/2009 1:25:13 PM, User Last Accessed: 5/13/2009 3:39:08 PM,

User Computer I.P. 64.8.92.114

Sent to: cameron.water@yahoo.com, Todd Deluccia, Cameron-WS

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Merge Record 11

*"Watershed Specialist Top Project Survey" Response*

Cameron Project A

Title: Clear Creek Restoration

Municipality: Shippen

Watershed: Clear Creek

Completed: 2009

Cost: 62000

Funding Source(s): Growing Greener County Environmental Initiative

Watershed Specialist: Current

Categories: Watershed Protection, Erosion & Sedimentation, Streams & Lakes, Other:

Narrative:

The watershed specialist has a great knowledge of streambank stabilization/fish habitat enhancement techniques. Over the past 3 yrs the watershed specialist has completed over 25 sites within Cameron County with the use of log structures. These log structures are much cheaper than traditional FGM but work just as good or better in some cases. The Clear Creek Restoration was originally a project that was going to involve the installation of 7 FGM structures for the price of \$62,000. The Watershed Specialist took that \$62,000 and did 11 sites, installed over 70 structures, and stabilized around 3500 feet of stream. Structures included multilog deflectors, single log deflectors, crib walls, log cross vanes, log/stone combo J-hooks, overhead cover triangle deflectors, rootwad reclamation, and random boulder placement. This project not only stopped hundreds of tons of sediment from entering the stream system, but it also provided excellent fish habitat to an excellent trout stream. Partners in this project were PA Fish and Boat Commission, US Fish and Wildlife Service, Bucktail Watershed Association, and many of the landowners helped at times as well. The role of the Watershed Specialist was permitting, design, and implementation of the project. The Watershed Specialist does not stand on the bank telling the contractor what to do, he is in the trenches pounding rebar as a laborer. This is another reason the projects are done in such a cost effective manner. A project of this size using traditional FGM techniques is estimated to cost around \$750,000.

*"Watershed Specialist Top Project Survey" Response*

Cameron Project B

Title: Sterling Run Restoration

Municipality: Shippen/Lumber

Watershed: Sterling Run

Completed: Still ongoing

Cost: 1.13 million

Funding Source(s): Growing Greener, CEI, Canaan Valley Institute, Sinnemahoning Stakeholders Committee, PA Fish and Boat Commission

Watershed Specialist: Jim Zoschq and Todd Deluccia

Categories: Abandoned Mine Reclamation, Watershed Planning, Watershed Protection, Other:

Narrative:

It has been a goal of the Conservation District for quite some time now to cleanup the county's only source of AMD in Sterling Run. There are 3 tributaries to Sterling Run that are polluted with AMD. They are Finley Run, Portable Run, and May Hollow Run. Over the past 6 yrs the 2 Watershed Specialist have been doing large ammounts of leg work for the assessment of the entire watershed. The Watershed Specialist has obtained funding for the construction of 5 passive treatment systems (4 in May Hollow, and 1 in Portable Run). May Hollow is the biggest contributor of AMD to Sterling Run accounting for over 40%. 4 systems will be built in this watershed. The major one will be MAYH49. This discharge is 70% of the acid loading to May Hollow. It will be a spilt vertical flow wetland system. MAYH13 is a smaller discharge that will be a single vertical flow wetland. The Cameron County Landfill project is an abandoned mine that was used as a landfill untill the late 70's and in the 80's it was retired and capped. Since then several AMD seeps have appeared. Because the landfill was capped and there is lime mixed in the alkalinity coming out is very high. Precipitation basins will collect all of the seeps where the metals will drop out. Everything will then be piped to an aerobic wetland to polish it off. And the MAYH10 sites is a small discharge that is going to be a limestone basin to generate an extra shot of alkalinity. Portable Run is the 3rd largest source. As a condition of a current mining permit, Allegheny Enterprises is building an anoxic limestone drain, and backfilling a large mine pool with limestone. The Conservation District is doing a system on the PORT14 discharge. It will be a vertical flow wetland. Finley Run is being remined and water quality will change so that stream has not been tackled yet. With funding in place these systems will likely all be built within the next 2 years. Without a watershed specialist around it will be very tough to do. All of these streams are wild trout streams in their headwaters but devoid of life below the AMD. These systems in Portable and May Hollow will remediate these streams completely. The

*"Watershed Specialist Top Project Survey" Response*

Watershed Specialist role in this project has been assessment, permitting, and will be some construction oversight.

*"Watershed Specialist Top Project Survey" Response*

Cameron Project C

Title: Invasive Plant Control

Municipality: All in Cameron

Watershed: Sinnemahoning Creek

Completed: 2009

Cost: 0

Funding Source(s): na

Watershed Specialist: Current

Categories: Watershed Protection, Streams & Lakes, , Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Huntingdon

Respondent: Celina Seftas Position: Watershed Specialist, Email: cseftas@gmail.com,

Current Watershed Specialist: Celina Seftas Years on job: <1

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Projects:

A: District Environmental Education Program

B: Water Quality Monitoring - AMD affected watersheds

C: Grant Writing and Management

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 790948098 Collector: 9226753

User Created: 5/12/2009 1:28:28 PM, User Last Accessed: 5/14/2009 6:40:05 PM,

User Computer I.P. 199.144.165.179

Sent to: cseftas@gmail.com, Celina Seftas, Huntingdon-WS

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Merge Record 12

*"Watershed Specialist Top Project Survey" Response*

Huntingdon Project A

Title: District Environmental Education Program

Municipality: multiple - Walker Twp, Carbon Twp, Todd Twp

Watershed: multiple - Juniata River, Shoup's Run, Crooked Creek

Completed: ongoing

Cost:

Funding Source(s): PACD

Watershed Specialist: Celina Seftas --default

Categories: Nonpoint Source Pollution Education, Grant Writing, , Other:

Narrative:

The Watershed Specialist has the lead role in developing an environmental education program for all ages the District. Tasks have included 1) developing programming materials/activities, 2) grant writing to fund needed resources, 3) initiating contacts for educational events throughout the county, 4) established partnerships with Juniata College, Blair County Conservation District, Southside Elementary School, PA CleanWays of Huntingdon County, & Shaver's Creek Environmental Center, 5) implementing educational events with the assistance of partners or occasionally other staff members. The educational program has taken many forms including: interns from Juniata College, field trips for local schools and the College, in-school presentations, and presentations to civic groups and members of the public. Future plans also include rain barrel workshops.

*"Watershed Specialist Top Project Survey" Response*

Huntingdon Project B

Title: Water Quality Monitoring - AMD affected watersheds

Municipality: Carbon Twp.

Watershed: Shoup's Run, Miller Run

Completed: ongoing

Cost:

Funding Source(s):

Watershed Specialist: Celina Seftas --default

Categories: Watershed Protection, Watershed Group Support / Capacity Building, Nonpoint Source Pollution Education, Other:

Narrative:

The Watershed Specialist conducts monthly monitoring of AMD systems as part of the developing operation, maintenance and replacement plan. The primary purpose is to detect system malfunctions and resolve them on a timely basis to preserve the aquatic life that has returned to this restored area (namely, the brook trout in Miller Run). The watershed group does not have the capacity to keep up with this sampling. Also, the Watershed Specialist has included the involvement of interns funded by Juniata College.

*"Watershed Specialist Top Project Survey" Response*

Huntingdon *Project C*

Title: Grant Writing and Management

Municipality: multiple

Watershed: multiple

Completed: ongoing

Cost:

Funding Source(s): many

Watershed Specialist: Celina Seftas --default

Categories: Grant Writing, Watershed Group Support / Capacity Building, , Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Monroe

Respondent: Trish Attardo Position: Watershed Specialist, Email: pamccd@ptd.net,

Current Watershed Specialist: Trish Attardo Years on job: 4

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Projects:

A: Framework for Sustainable Watershed Management in the Pocono Creek

B: WaterWaze Festival

C: Floodplain Monitoring

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 790892869 Collector: 9226753

User Created: 5/12/2009 12:24:43 PM, User Last Accessed: 5/14/2009 3:46:35 PM,

User Computer I.P. 24.229.80.209

Sent to: pamccd@ptd.net, Trish Attardo, Monroe-WS

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Merge Record 13

*"Watershed Specialist Top Project Survey" Response*

Monroe Project A

Title: Framework for Sustainable Watershed Management in the Pocono Creek

Municipality: Multiple in County

Watershed: Pocono Creek

Completed: 2009

Cost: \$50,000 for MCCD's portion of the project

Funding Source(s): US EPA's Collaborative Science and Technology Network for Sustainability (through DRBC)

Watershed Specialist: Darryl Speicher and Trish Attardo

Categories: Watershed Planning, Watershed Protection, Nonpoint Source Pollution Education, Other: education on land use effects on stream flows

Narrative:

Partnering with the US EPA Region 3, DBRC, USGS, PFBC, US EPA in Fort Collins, CO, the Brodhead Watershed Association, and the Monroe County Planning Commission, The Monroe County Conservation District participated in many facets of this project. The goal of this project was to: - quantify land use effects on stream flows and trout populations in the Pocono Creek Watershed utilizing models generated by EPA and USGS scientists - educate the public on the results of these studies through an effective and memorable outreach campaign - and, share the study results with state representatives, municipal officials, leaders in the economic development and land preservation fields, planners, state and local agency representatives, and legal professionals -- in order to collectively develop strategies for avoiding the outcomes of future growth projected in the studies. Throughout the project, the Watershed Specialist was responsible for administering the MCCD's and MCPC's portion of the grant and match funds and submitting invoices to DRBC, the grant administrator. During the Technical stage of the project, the Watershed Specialist assisted with data collection, equipment maintenance, and participated in technical team and project planning meetings. During the Education and Outreach phase, the Watershed Specialist worked closely with the Pocono Arts Council and the Brodhead Watershed Association to develop and administer "Trout Trails and Tales," which combined art (5-foot tall trout statues decorated by artists) and science (the study results) in an effort to generate interest amongst a broad base of community members. The trout were placed out on the "trail" throughout the County for the summer, each trout bearing a piece of the "tale" of the watershed. Visit the website of [www.trouttrails.org](http://www.trouttrails.org) for more information. The Planning phase of the project began earlier this year with a workshop for the local leaders and state officials mentioned above. The Watershed Specialist

*"Watershed Specialist Top Project Survey" Response*

*participated in the planning meetings and assisted with the coordination of the workshop of over 80 attendees. The workshop attendees were given an opportunity to respond to the study results and to suggest alternatives for future development which will protect water resources. The outcomes of the workshop are currently being summarized with plans to develop a committee which oversees the implementation of the suggested alternatives. The grant-funded portion of this project has already been completed.*

*"Watershed Specialist Top Project Survey" Response*

Monroe Project B

Title: WaterWaze Festival

Municipality: Multiple in County

Watershed: Brodhead Creek and Tobyhanna Creek

Completed: annual festival

Cost: 2000

Funding Source(s): PPL

Watershed Specialist: Trish Attardo --default

Categories: Nonpoint Source Pollution Education, , , Other: education in watershed, wetlands, groundwater, etc.

Narrative:

In celebration of Watershed Awareness Month (May) the Monroe County Watershed Alliance (MCWA) has put on an educational event for 6th grade students in the Pocono Mountain School District for the past three years. The MCWA includes the non-profit groups: the Aquashicola/Pohopoco Watershed Conservancy, the Brodhead Watershed Association, the North Pocono C.A.R.E, the Tobyhanna Creek/Tunkhannock Creek Watershed Association and the Shawnee Preservation Society who each provide volunteers to assist with festival. Each year, over 40 volunteers from watershed groups, other nonprofits, local, state, and national agencies, environmental consulting firms, and area colleges have helped at the festival either by providing educational presentations, escorting classes, directing buses, registering volunteers, etc. The Watershed Specialist, as the lead coordinator of this annual event, is responsible for communicating with the school, the host facility, volunteers, presenters, caterer, tent rental company, etc. to discuss, plan, accommodate, and negotiate the festival plans. The festival has grown from 300 students (15 classes) in the first year to accommodating 500 students (24 classes) this year. Each hands-on presentation addresses the Watersheds and Wetlands section of the state Academic Standards for Environment and Ecology. This is of importance to the teachers. Students learn about topics such as watersheds, wetlands, groundwater, aquatic life, the water cycle, and water quality through presentations/activities given by professionals and volunteers in the environmental field in a manner that might not otherwise be duplicated in the classroom. The feedback provided on the evaluation forms from the teachers and all others involved indicate that this is a valuable experience for all.

*"Watershed Specialist Top Project Survey" Response*

Monroe Project C

Title: Floodplain Monitoring

Municipality: all in County

Watershed: all in County

Completed: 2006

Cost: 8250

Funding Source(s): DCED/PSATS

Watershed Specialist: Darryl Speicher and Trish Attardo

Categories: Floodplain Monitoring, , , Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Fayette

Respondent: Doug Petro & Heather Fowler Position: District Manager & Watershed Specialist, Email: heatherdfowler@yahoo.com,

Current Watershed Specialist: Heather D. Fowler Years on job: Since the very beginner - 9 years

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Projects:

A: Fayette County Children's Water Festival

B: Morgan Run Abandoned Mine Drainage Remediation Project

C: Stream Assessments/Conservation Planning (Morgan Run, Jonathan Run, Browns Run, Rasler Run, Ramcat Run)

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 790395977 Collector: 9226753

User Created: 5/11/2009 6:53:08 PM, User Last Accessed: 5/15/2009 3:41:44 PM,

User Computer I.P. 71.126.44.45

Sent to: heatherdfowler@yahoo.com, Heather Fowler, Fayette-WS

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Merge Record 14

*"Watershed Specialist Top Project Survey" Response*

Fayette Project A

Title: Fayette County Children's Water Festival

Municipality: All in Fayette County

Watershed: All in Fayette County

Completed: Annually since 2002

Cost: \$10,000 - \$12,000 Annually (\$80,000 - \$96,000 over 8 years)

Funding Source(s): WREN, PADEP, Local Businesses & Municipal Authorities

Watershed Specialist: Heather D. Fowler --default

Categories: Nonpoint Source Pollution Education, Grant Writing, Watershed Protection, Other:

Narrative:

The Water Festival is an annual, one-day educational event, designed to teach sixth grade students across the county the basics of water in a hands-on, highly interactive way. The Water Festival has hosted over 6,600 sixth grade students in the past 8 years (2002-2009) and regularly maintains a waiting list of additional students. Funding for the water festival has been/is received from a wide variety of sources including the League of Women Voters of Pennsylvania's Citizen's Education Fund's Water Resources Education Network (WREN), the Pennsylvania Department of Environmental Protection Environmental Education Grants (PADEP EE), local community granting agencies and a wide ranging number of local businesses and municipal authorities. The WS, collaborating with the FCCD Environmental Education Coordinator and a broad-based steering committee, was integral in the development of the event and has been/is largely involved with maintaining the broad-based steering committee, grant administration, working with the committee members on all aspects of the festival implementation as well as working as the head of a sub-committee responsible for researching and retaining over forty different exhibits/presentations each year as well as the head of a sub-committee responsible for annual fundraising. Steering Committee Members for 2009 Event include: Fayette County Conservation District, Mountain Watershed Association, Inc., Pennsylvania American Water, Pennsylvania Department of Conservation & Natural Resources - Bureau of Parks - Ohiopyle State Park, Pennsylvania Department of Environmental Protection, Pennsylvania State University Fayette - The Eberly Campus.

*"Watershed Specialist Top Project Survey" Response*

Fayette Project B

Title: Morgan Run Abandoned Mine Drainage Remediation Project

Municipality: Dunbar Township

Watershed: Morgan Run

Completed: 2009

Cost: \$21,091 Assessment (FCCD), \$49,608 Design & Permitting (FCCD), \$500,000 Construction (Completed by Chestnut Ridge Trout Unlimited)

Funding Source(s): Growing Greener & Growing Greener CEI

Watershed Specialist: Heather D. Fowler --default

Categories: Abandoned Mine Reclamation, Watershed Protection, Permitting Assistance, Other:

Narrative:

The WS, assisted by additional FCCD staff, project partners & technical advisory committee, implemented a Growing Greener grant for the watershed assessment of Morgan Run including the development of a watershed restoration plan, monthly water quality monitoring, data assessment, background information gathering, weir installation (including volunteers from Chestnut Ridge Trout Unlimited), report writing creation of an educational display board and development of an educational video. The WS, assisted by additional FCCD staff, project partners & technical advisory committee, implemented a Growing Greener grant for the design and permitting of an abandoned mine drainage passive treatment system for the discharges located along Morgan Run. This project included additional water quality monitoring, flow monitoring, development of a request for proposal, development of technical advisory committee, conduction of bid process, coordination of meetings with appropriate permitting agencies, consultant and technical advisory committee, grant administration and a lengthy landowner negotiation process. The project then moved into the construction phase and culminated in the final construction of an AMD passive trt. system in Spring 2009. The construction phase was handled by the Chestnut Ridge Trout Unlimited and was assisted by WS and other FCCD staff as necessary. The technical advisory committee and project partners for the Morgan Run AMD Remediation Project are as follows: Chestnut Ridge Trout Unlimited, Pennsylvania Association of Conservation Districts, Pennsylvania Department of Environmental Protection Bureau of Abandoned Mine Reclamation, Pennsylvania Department of Environmental Protection Greensburg District Mining Office, Pennsylvania Department of Environmental Protection Southwest Regional Office, Western Pennsylvania Conservancy Western Pennsylvania Coalition for Abandoned Mine Reclamation, Pennsylvania Game Commission, Private Landowner

*"Watershed Specialist Top Project Survey" Response*

Fayette Project C

Title: Stream Assessments/Conservation Planning (Morgan Run, Jonathan Run, Browns Run, Rasler Run, Ramcat Run)

Municipality: Dunbar Twp., Dunbar & Stewart Twps., German & Georges Twps., Bullskin & Springfield Twps., Henry Clay Twp.)

Watershed: Morgan Run, Jonathan Run, Browns Run, Rasler Run, Ramcat Run

Completed: 2001-2009

Cost: 70632

Funding Source(s): Growing Greener & PA Trout Coldwater Conservation Grants

Watershed Specialist: Heather D. Fowler --default

Categories: Watershed Planning, Streams & Lakes, Abandoned Mine Reclamation, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Lackawanna

Respondent: Alana Roberts Position: Watershed Specialist, Email: roberts@lccd.net,

Current Watershed Specialist: Alana Roberts Years on job: 2.5

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Projects:

A: Well Water Testing and Education

B: Community Connections to the Watershed

C: Lonesome Road Streambank Stabilization

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 790302251 Collector: 9226753

User Created: 5/11/2009 5:22:38 PM, User Last Accessed: 5/11/2009 6:27:06 PM,

User Computer I.P. 208.199.79.26

Sent to: roberts@lccd.net, Alana Roberts, Lackawanna-WS

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Merge Record 15

*"Watershed Specialist Top Project Survey" Response*

Lackawanna Project A

Title: Well Water Testing and Education

Municipality:

Watershed:

Completed: 2004-2009

Cost: 60000

Funding Source(s): PA DEP, Department of Community and Economic Development

Watershed Specialist: John Clune and Alana Roberts

Categories: , , , Other: Groundwater Education

Narrative:

The conservation remains committed to providing residents with information regarding their private well water system. We have held many different educational workshops including the most recent "Natural Gas Well Drilling and Drinking Water" in November 2008 in which we partnered with Penn State Cooperative Extension to educate and provide free water testing to 150 homeowners. During the past five years, over 500 homeowners have received free or reduced cost water testing and information on how to treat groundwater quality problems. Results of this testing is maintained by the conservation district in a spatial database which indicates trends in groundwater contamination areas of concern for groundwater quality.

*"Watershed Specialist Top Project Survey" Response*

Lackawanna Project B

Title: Community Connections to the Watershed

Municipality:

Watershed: Lackawanna River

Completed: 2009

Cost: 8700

Funding Source(s): Lackawanna Heritage Valley Authority, PA American Water, PA DCNR- Bureau of State Parks

Watershed Specialist: Alana Roberts

Categories: Nonpoint Source Pollution Education, , , Other:

Narrative:

Community Connections to the Watershed is a hands-on environmental education program in which five students and a teacher adviser from schools in Lackawanna County work with local resource professionals and higher education professors, taking part in exciting activities and field sessions, focusing on the future of the Lackawanna Valley and how local communities are connecting to the area's most prominent natural resources – the Lackawanna and Susquehanna River Watersheds. Field Sessions included: • September 2008 –Introduction to the Watershed Macroinvertebrate Sampling, Chemical Testing and Watershed Delineation (Lackawanna Heritage Valley Center) • October 2008 – Wind Power for People and Hawks, and GPS (Upper Watershed) • November 2008 – Water Quality: sewage treatment and drinking water plant • January 2009 – GPS and GIS Application Lab (Keystone College) • March 2009 – Abandoned Mine Drainage and Lackawanna Coal Mine tour (Old Forge Bore Hole) • April 2009 – Earth Week Service Day • May 2009 – Student Presentations and optional Kayak/Canoe Susquehanna River Experience Lackawanna County Conservation District has been assisting with this program in varying degrees since 2005. Specifically in 2008/09, LCCD assisted by writing grants to secure funding for the program, administering the funding for the program, organizing the educational events, preparing agendas and themes as well as conducting hands-on education at each site related to watersheds and water quality. Partners include PA DCNR- Lackawanna State Park and Nescopeck State Park as well as Keystone College.

*"Watershed Specialist Top Project Survey" Response*

Lackawanna Project C

*Title: Lonesome Road Streambank Stabilization*

*Municipality: Old Forge Borough*

*Watershed: Lackawanna River*

*Completed: 2007*

*Cost: 50000*

*Funding Source(s): PA DEP, PA DCED*

*Watershed Specialist: Alana Roberts*

*Categories: Streams & Lakes, , Other: Watershed Rehabilitation*

*Narrative:*

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Erie

Respondent: Amy Jo Smith Position: Watershed Specialist, Email: amyjosmith@erieconservation.com,

Current Watershed Specialist: Amy Jo Smith Years on job: 5

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Projects:

A: Cascade Creek Restoration

B: Agricultural BMP Cost Share Program

C: Lake Erie Watershed Management

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 790158782 Collector: 9226753

User Created: 5/11/2009 2:59:40 PM, User Last Accessed: 5/11/2009 3:29:11 PM,

User Computer I.P. 96.11.102.112

Sent to: amyjosmith@erieconservation.com, Amy Jo Smith, Erie-WS

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Merge Record 16

*"Watershed Specialist Top Project Survey" Response*

Erie Project A

Title: Cascade Creek Restoration

Municipality: City of Erie

Watershed: Lake Erie

Completed: Phase one 2006 Phase two 2010

Cost: phase one 150,000 phase two 400,000

Funding Source(s): GG, GLC, GLP, local match, ARRA

Watershed Specialist: Amy Jo Smith --default

Categories: Streams & Lakes, Erosion & Sedimentation, , Other:

Narrative:

The watershed specialist and partners are currently working on further improvements to the Cascade Creek Watershed. Cascade Creek is a high profile urban stream that receives thousands of visitors each year, and is a tributary to Presque Isle Bay (PIB). ECCD received funding from the Growing Greener Program in 2004 to restore 500 feet of stream bank along Cascade Creek within Frontier Park. This project was the first phase of a multiple phase project for stream and watershed improvements. ECCD and its partners successfully implemented phase one and are committed to continued improvements. Since completion of the phase one, water quality improvements to the streams has been noted. Fish biodiversity has increased, and stream side riparian area has improved greatly. Pre- and post-construction water studies were completed by Pennsylvania Sea Grant. Proposed activities for the next phase include plans to restore an additional 1000 feet of stream bank, and to reduce stormwater impacts through the implementation of rain gardens and retrofitted best management practices (BMPs) upstream in the watershed. Through the strong partnerships necessary to the success of this project we hope to have these additional improvements complete in the spring of 2011. Partnerships include Pennsylvania Sea Grant, Lake Erie Arboretum at Frontier (LEAF), Save Our Native Species (S.O.N.S.), and the City of Erie. The success of phase one has kept the partners of this project committed and energize. We are ready and excited to move forward with the phase two of this project and are hopeful the Growing Greener Program will continue to be financially supportive of our efforts. The watershed specialist joined this project in a very important part. For lack of good planning the project was stalled and partnerships were being strained. The watershed specialist turned the project around and has re-energized partners that were ready to quit after phase one. The watershed specialist is responsible for partnership relations, grant funding, marketing and program management tasks.

*"Watershed Specialist Top Project Survey" Response*

Erie Project B

Title: Agricultural BMP Cost Share Program

Municipality: Various

Watershed: Lake Erie and Ohio River Basin

Completed: On going

Cost: approximately 400,000

Funding Source(s): Growing Greener, local match, EQIP, Crep

Watershed Specialist: Amy Jo Smith --default

Categories: Agricultural Conservation, Erosion & Sedimentation, Nutrient Management, Other:

Narrative:

This project reduces agricultural non-point source pollution throughout Erie County, such as sediment, nutrients, bacteria and harmful pathogens, especially E. coli. The watershed specialist is the project manager and responsible for the implementation of more than 30 agricultural BMPs and least eight new voluntary nutrient management plans. At least 20 of the proposed projects are in watersheds that are listed in the "Impaired Waterbodies" [303(d) listing] for Erie County. At least 20 of the proposed projects are in watersheds that drain into Lake Erie. With the help of professionals at the USDA Natural Resource Conservation Service the ECCD plans to implement design and construct all proposed projects between September 2007 until June 30, 2010. To encourage landowner commitment to the project a minimum 5% match is required to participate in the program. If federal money is not available to be matched to any particular project the landowner will be responsible for 25% match. This project have great environmental and economical benefits for Erie County. By improving and maintaining water quality this program will help ensure the strong tourism in our area, encourage protection of our waterways and assist in the preservation of our farming community. The watershed specialist, co-workers and partners have been successfully providing the Erie community with strong programs that have large environmental, economical and social benefits. This program is a great addition to a long list of continuing programs in our area. The watershed specialist is vital to this program. She performs the grant managment and project managment tasks. She delegates duties and follows on the status of goals and objectives.

*"Watershed Specialist Top Project Survey" Response*

Erie Project C

Title: Lake Erie Watershed Management

Municipality: Various

Watershed: Lake Erie

Completed: On-going

Cost: More than one million

Funding Source(s): various

Watershed Specialist: Amy Jo Smith --default

Categories: Watershed Planning, Grant Writing, Watershed Protection, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: ARMSTRONG

Respondent: David E. Beale Position: Watershed Specialist, Email: bealede@hotmail.com,

Current Watershed Specialist: David E. Beale Years on job: Nine

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Projects:

A: Plum Creek Streambank Stabilization, Fish Habitat, and Riparian Corridor Restoration

B: Booker Discharge Remediation Project

C: South Scenic Drive Project

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 789075399 Collector: 9226753

User Created: 5/8/2009 6:27:24 PM, User Last Accessed: 5/13/2009 7:27:15 PM,

User Computer I.P. 174.130.25.149

Sent to: bealede@hotmail.com, David Beale, Armstrong-WS

---

Merge Record 17

*"Watershed Specialist Top Project Survey" Response*

ARMSTRONG Project A

Title: Plum Creek Streambank Stabilization, Fish Habitat, and Riparian Corridor Restoration

Municipality: Plumcreek Township

Watershed: Plum Creek

Completed: On-going

Cost: Phases I and II - \$321,100.00; Phase II \$64,000.00 Cur

Funding Source(s): Growing Greener, Reliant Energy, Dominion Resources

Watershed Specialist: Daviv E. Beale and Tom Clark

Categories: Erosion & Sedimentation, Floodplain Monitoring, Wetlands, Other: Fish Habitat Enhancement

Narrative:

The Plum Creek Initiative is an on-going series of projects to stabilize the channel of Plum Creek from Keystone Lake to the Keystone Power Plant-a distance of 5.5 miles. To date over 2.5 miles have been completed through 3 projects. Two Growing Greener Grants are in place to complete another 1 mile(approx). FGM type structure including Rock and Log Vanes, J-Hook Vanes, Cross Vanes, Root-wads, Bank Grading and Riparian Plantings are being used to stabilize and improve this hydraulically impaired stream due to altered flow regimes from Keystone Lake. Partners include Reliant Energy and Dominion Resources which have provided monetary contributions to the project. The Crooked Creek Watershed Association, the Armstrong County Conservancy, the West Shamokin Leo Club, Americorps, Boy Scout Troop 670 and the Yatesboro Cub Scout Pack have provided hand labor.. The Elderton Sandwich House and Walmart have contributed food. Dunn Excavating and Terry Petters Construction have been the primary contractors. The Armstrong Conservation District Watershed Specialist has done all suveys, designs, permitting, and construction inspection as well as grant applications, contract documents and administration.

*"Watershed Specialist Top Project Survey" Response*

ARMSTRONG Project B

Title: Booker Discharge Remediation Project

Municipality: Parks Township

Watershed: Carnahan Run-Kiskiminetas River

Completed: 2008

Cost: \$42,000.00-Construction Phase

Funding Source(s): OSM(Construction);Growing Greener(Assessment and Design

Watershed Specialist: David E. Beale and Tom Clark

Categories: Abandoned Mine Reclamation, Wetlands, Erosion & Sedimentation, Other: Improved Fish Habitat in Carnahan Run

Narrative:

This project involved the construction of a Passive Wetland Treatment System to treat an alkaline-iron discharge from an abandoned deep mine. The discharge volume is 50 to 100 GPM and the iron concentration is 20 to 25 ppm. The Kiskiminetas River Watershed Association is the primary organization on this project. Prior to the construction phase the problem was identified through a watershed assessment on the Armstrong County portion of the Kiski River. A second project funded through Growing Greener completed the necessary monitoring, site survey and system design. The project was then built through an OSM Grant. The assessment was completed by CDWS Tom Clark; The subsequent site survey and design were carried out by CDWS Beale and Clark. Water quality analysis and system advice were provided by CWM Environmental Company. The construction of the system was carried out by Paul Atkinson and Son Co. The system consists of a discharge collection facility, a 500' delivery channel, three wetland treatment cells and a discharge channel to Carnahan Run. The system at present is about 80% efficient in removing the iron concentration. CDWS Beale completed the system design, carried out bidding and contracting and did the construction inspection.

*"Watershed Specialist Top Project Survey" Response*

ARMSTRONG Project C

Title: South Scenic Drive Project

Municipality: South Buffalo Township

Watershed: Buffalo Creek

Completed: 2005

Cost: \$82,484.80 Total-Growing Greener Grant-\$62,413.05

Funding Source(s): Growing Greener

Watershed Specialist: David E. Beale

Categories: Erosion & Sedimentation, Stormwater Management, , Other: Fish Habitat

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Northumberland

Respondent: Judy Becker Position: District Manager, Email: jbecker@nccdpa.org,

Current Watershed Specialist: Jaci Harner Years on job: 2

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Projects:

A:

B:

C:

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 0 Collector: 9226753

User Created: 5/8/2009 5:35:18 PM, User Last Accessed: 5/8/2009 5:37:16 PM,

User Computer I.P. 24.229.10.205

Sent to: jbecker@nccdpa.org, Judy Becker, Northumberland-DM

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Merge Record 18

*"Watershed Specialist Top Project Survey" Response*

*Northumberland Project A*

*Title:*

*Municipality:*

*Watershed:*

*Completed:*

*Cost:*

*Funding Source(s):*

*Watershed Specialist: Jaci Harner --default*

*Categories: , , , Other:*

*Narrative:*

*"Watershed Specialist Top Project Survey" Response*

Northumberland *Project B*

*Title:*

*Municipality:*

*Watershed:*

*Completed:*

*Cost:*

*Funding Source(s):*

*Watershed Specialist: Jaci Harner --default*

*Categories: , , , Other:*

*Narrative:*

*"Watershed Specialist Top Project Survey" Response*

Northumberland Project C

*Title:*

*Municipality:*

*Watershed:*

*Completed:*

*Cost:*

*Funding Source(s):*

*Watershed Specialist: Jaci Harner --default*

*Categories: , , , Other:*

*Narrative:*

*"Watershed Specialist Top Project Survey" Response*

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County: Bradford

Respondent: Mke Lovegreen Position: District Manager, Email: mike.lovegreen@pa.nacdnet.net,

Current Watershed Specialist: Robert Parker Years on job: 5

---

Projects:

A: Towanda/Sugar Creek Rivers Conservation Plan

B: County Stream Stabilization Initiative

C: Towanda Creek Watershed

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 788821946 Collector: 9226753

User Created: 5/8/2009 1:30:55 PM, User Last Accessed: 5/8/2009 1:54:30 PM,

User Computer I.P. 199.144.142.222

Sent to: mike.lovegreen@pa.nacdnet.net, Mike Lovegreen, Bradford-DM

---

Merge Record 19

*"Watershed Specialist Top Project Survey" Response*

Bradford Project A

Title: Towanda/Sugar Creek Rivers Conservation Plan

Municipality: 40 municipalities in Bradford, Sullivan, Tioga & Lycoming Counties

Watershed: 4C - Towanda & Sugar

Completed: 2009

Cost: 100000

Funding Source(s): DCNR, Bradford CD, Watershed Groups, Municipalities

Watershed Specialist: Rob Parker

Categories: Watershed Planning, Watershed Protection, Watershed Group Support / Capacity Building,  
Other:

Narrative:

Watershed wide comprehensive rivers conservation planning, involving 40 municipalities in 4 Counties and three watershed groups as well as County, State and Federal Agencies. Plan incorporates all previous planning efforts conducted by County, State, Federal and Local agencies and municipalities. Public meetings were held in eac of the municipalities to gather input.

*"Watershed Specialist Top Project Survey" Response*

Bradford Project B

*Title: County Stream Stabilization Initiative*

*Municipality: Bradford County*

*Watershed: Upper Susquehanna*

*Completed: 2009*

*Cost: 800000*

*Funding Source(s): Growing Greener County Environmental Initiative, DEP Waterways Engineering, Landowners*

*Watershed Specialist: Robert Parker*

*Categories: Streams & Lakes, Watershed Protection, Erosion & Sedimentation, Other:*

*Narrative:*

*Inventory, design, permitting, contracting and construction oversight of stream rehabilitation sites in the County in partnership with County Commissioners, DEP and landowners. Sites were selected for environmental impacts, threats to life and property and riparian rehabilitation. Watershed Specialist and other District personnel did all technical and administrative elements with engineering oversight from NRCS.*

*"Watershed Specialist Top Project Survey" Response*

Bradford Project C

Title: Towanda Creek Watershed

Municipality: 18 Municipalities in western Bradford County

Watershed: Towanda (4c)

Completed: ongoing

Cost: 500000

Funding Source(s): Growing Greener, NFWF, Landowners

Watershed Specialist: Rob Parker, Mary Graham

Categories: Watershed Protection, Watershed Planning, Watershed Group Support / Capacity Building, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Fulton

Respondent: Seleen Shives Position: District Manager, Email: seleen\_fccd@pa.net,

Current Watershed Specialist: Scott Alexander Years on job: 7 years

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Projects:

A: Spring Run Stream Restoration Project

B: Cove Creek Stream Restoration Project

C: ?

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 788761282 Collector: 9226753

User Created: 5/8/2009 11:49:31 AM, User Last Accessed: 5/8/2009 12:03:32 PM,

User Computer I.P. 206.251.6.230

Sent to: seleen\_fccd@pa.net, Seleen Shives, Fulton-DM

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Merge Record 20

*"Watershed Specialist Top Project Survey" Response*

Fulton Project A

Title: Spring Run Stream Restoration Project

Municipality: Ayr

Watershed: Spring Run - Big Cove Creek - Potomac River

Completed: ongoing

Cost:

Funding Source(s): Growing Greener, 319

Watershed Specialist: Scott Alexander --default

Categories: Watershed Protection, Agricultural Conservation, Streams & Lakes, Other:

Narrative:

*"Watershed Specialist Top Project Survey" Response*

Fulton Project *B*

Title: Cove Creek Stream Restoration Project

Municipality: Ayr

Watershed: Big Cove Creek - Potomac River

Completed: ongoing

Cost:

Funding Source(s): Growing Greener, 319, NFWF, Western PA Watershed

Watershed Specialist: Scott Alexander --default

Categories: Watershed Protection, Land/Open Space Preservation, Land/Open Space Preservation,

Other:

Narrative:

*"Watershed Specialist Top Project Survey" Response*

Fulton Project C

Title: ?

Municipality:

Watershed:

Completed:

Cost:

Funding Source(s):

Watershed Specialist: Scott Alexander --default

Categories: , , , Other:

Narrative:

*"Watershed Specialist Top Project Survey" Response*

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County: Columbia

Respondent: Maryruth Wagner Position: District Manager, Email: maryruth.wagner@pa.nacdnet.net,

Current Watershed Specialist: Cathy Haffner & Stephanie Singer (both part-time) Years on job: Cathy - almost 4, Stephanie - 6

---

Projects:

A: AUDENREID TUNNEL PROJECT

B: Fluvial Geomorphology Project at Kocher Park, Fishing Creek, Columbia County

C: Frank Kocher Memorial Park, Lightstreet, PA

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 788070375 Collector: 9226753

User Created: 5/7/2009 2:41:56 PM, User Last Accessed: 5/11/2009 9:28:56 PM,

User Computer I.P. 199.144.153.212

Sent to: maryruth.wagner@pa.nacdnet.net, Maryruth Wagner, Columbia-DM

---

Merge Record 21

*"Watershed Specialist Top Project Survey" Response*

Columbia Project A

Title: AUDENREID TUNNEL PROJECT

Municipality: EAST UNION

Watershed: CATAWISSA CREEK

Completed: 2006

Cost: OVER \$1.5 MILLION

Funding Source(s): Growing Greener, BAMR, DEP

Watershed Specialist: Tom Davidock, Catherine Haffner,

Categories: Abandoned Mine Reclamation, Watershed Protection, Abandoned Mine Reclamation, Other:

Narrative:

The Audenreid Tunnel Project is the treatment of an abandoned mine drainage tunnel that is responsible for 80% of the pollution going into the Catawissa Creek Watershed. The water from the tunnel discharges into limestone filled tanks to increase the pH of the flow. This project has been a major contributor to the restoration of the Catawissa Creek. This project was a shared venture with the Schuylkill County conservation district and the Columbia County Conservation District. With funding from Growing Greener, BAMR, and OSM funding this project was made possible. Watershed specialists from both counties worked diligently to make this project a success. Without watershed specialists overseeing this project, completion and funding would not have occurred.

*"Watershed Specialist Top Project Survey" Response*

Columbia Project B

Title: Fluvial Geomorphology Project at Kocher Park, Fishing Creek, Columbia County

Municipality: Scott Township, Columbia County

Watershed: Fishing Creek

Completed: 2004

Cost: 150000

Funding Source(s): Growing Greener

Watershed Specialist: Sara Jamieson, Shon Robbins, Stephanie Singer

Categories: Watershed Protection, Erosion & Sedimentation, Watershed Planning, Other:

Narrative:

FGM structures were installed on the banks of Fishing Creek to protect a streambank that was losing up to 15 ft. of bank after each high water event. The constant erosion of the bank was leading to property loss of a neighbor's land. The watershed specialist applied for growing greener funding and to secure the protection of the streambanks. With the assistance of DEP, the FCWA watershed association and the US Fish & Wildlife Service, the project was completed saving tons and tons of sediment from getting into Fishing Creek, a stocked trout stream. This project is one of many that displays the need for watershed specialists to work with property owners and watershed groups to preserve our natural resources.

*"Watershed Specialist Top Project Survey" Response*

Columbia Project C

*Title: Frank Kocher Memorial Park, Lightstreet, PA*

*Municipality: Scott Township, Columbia County*

*Watershed: Fishing Creek*

*Completed: 2005*

*Cost: 60000*

*Funding Source(s): Growing Greener, Wetland Mitigation Fund*

*Watershed Specialist: Shon Robbins, Stephanie Singer*

*Categories: Watershed Protection, Wetlands, Land/Open Space Preservation, Other:*

*Narrative:*

*12:00:00 AM*

*"Watershed Specialist Top Project Survey" Response*

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County: Adams

Respondent: Vy Trinh Position: former Watershed Specialist, current Nutrient mgt tech, Email: vtrinh@adamscounty.us,

Current Watershed Specialist: NONE- currently hiring Years on job: NA

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Projects:

A: Marsh Creek Watershed Protection Project

B: Rock Creek Assessment Project

C: Adams County Groundwater Evaluation Model

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 787539270 Collector: 9226753

User Created: 5/6/2009 7:45:42 PM, User Last Accessed: 5/6/2009 8:12:53 PM,

User Computer I.P. 74.95.180.36

Sent to: lmartick@adamscounty.us, Larry Martick, Adams-DM

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Merge Record 22

*"Watershed Specialist Top Project Survey" Response*

Adams Project A

Title: Marsh Creek Watershed Protection Project

Municipality: several

Watershed: Marsh Creek

Completed: 2006

Cost: 850000

Funding Source(s): DEP penalties

Watershed Specialist: Vy Trinh

Categories: Land/Open Space Preservation, Agricultural Conservation, Nonpoint Source Pollution Education, Other:

Narrative:

In December 2001, PA DEP provided an \$850,000 Community Environmental Project Grant to the Adams County Conservation District to create the Marsh Creek Watershed Protection Project. The Marsh Creek watershed includes multiple groundwater wells and a surface water intake used by Gettysburg Municipal Authority for the Gettysburg public water supply. The Conservation District provided the Land Conservancy of Adams County with a budget of \$589,500 for land and conservation easement acquisition and associated costs and retained \$260,500 for the implementation of best management practices and associated costs. Watershed Specialists role was to keep the project on schedule and within the allotted budget, also to coordinate with other existing programs to leverage all possible funding sources.

*"Watershed Specialist Top Project Survey" Response*

Adams Project B

Title: Rock Creek Assessment Project

Municipality: several

Watershed: Rock Creek Watershed

Completed: current

Cost: 27000

Funding Source(s): Growing Greener

Watershed Specialist: Vy Trinh

Categories: Nonpoint Source Pollution Education, Watershed Planning, Watershed Protection, Other:

Narrative:

The project was a partnership with the Watershed Alliance of Adams County, the Adams County Chapter of EASI, and the Adams CCD. the project was developed to educate and empower the local citizenry of the threats to a local watershed, educate and empower the local citizenry to affect change to resolve problems of a local watershed, solicit additional volunteers for participation in the ongoing water quality monitoring program of the Adams County Chapter of EASI, ID and prioritize degraded sites for future improvements and ID landowners for participation in Adams County Conservation District sponsored cost-share, incentives and other conservation programs. The Watershed Specialist provided technical support, coordination of the volunteers, administered the project and the develop the final technical report submitted to DEP.

*"Watershed Specialist Top Project Survey" Response*

Adams Project C

Title: Adams County Groundwater Evaluation Model

Municipality: several

Watershed: East Conewago Creek

Completed: underway

Cost: 15000

Funding Source(s): Growing Greener

Watershed Specialist: Vy Trinh

Categories: Watershed Planning, Watershed Protection, Stormwater Management, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Centre County Conservation District

Respondent: Ann Donovan Position: Watershed Specialist, Email: amdonova@co.centre.pa.us,

Current Watershed Specialist: Ann Donovan Years on job: eight

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Projects:

A: Development of the Centre County Conservation District's Education and Outreach Program

B: The Development of a Stream Restoration Coalition in Centre County

C: Acting as primary support person for Centre County Watershed Associations

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 787201954 Collector: 9226753

User Created: 5/6/2009 1:53:19 PM, User Last Accessed: 5/14/2009 10:51:21 PM,

User Computer I.P. 216.169.180.1

Sent to: resweitz@co.centre.pa.us, Robert Sweitzer, Centre-DM

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Merge Record 23

*"Watershed Specialist Top Project Survey" Response*

Centre County Conservation District Project A

Title: Development of the Centre County Conservation District's Education and Outreach Program

Municipality: Multiple

Watershed: Multiple

Completed: on going

Cost:

Funding Source(s): PACD mini grants, GG, District funds

Watershed Specialist: Ann Donovan --default

Categories: Nonpoint Source Pollution Education, Watershed Protection, Watershed Planning, Other:

Narrative:

Since I have been at the District our environmental education program has expanded to include yearly contact with hundreds of children and adults. I go into the classroom to teach watershed education in Bellefonte, State College, and Penns Valley Area School Districts. Each year I participate in the Penns Valley Field Days at the Cooke Tavern Wetlands, the Penns Valley Environmental Center and at individual schools. I participate in the Bellefonte School District Field Days at Bald Eagle State Park and Seven Mountains. For the last several years the District has sponsored, with Cooperative Extension, the Outdoor Adventure Conservation Camp at Bald Eagle State Park. We assist PSU with Field Days at Laurel Haven Environmental Center and we assist the Education Specialist at Bald Eagle State Park. I serve on the Cooperative Extension Forestry Advisory Committee, helping to plan the forestry program for the year. I am a part of the Bald Eagle Area School District Environmental Education Committee, working to create an Environmental Center at the school. I have secured partial funding for the Center and I have acted as a liaison between the school and Penn State's Landscape Architecture Department. I coordinated the Wetlands Project at the Young Scholar's School and secured the funding for that project. I always oversee the Current Issue topic at the County Envirothon and I usually assist with the State Envirothon. Throughout the past eight years I have coordinated numerous successful workshops on a variety of topics, including native plant landscaping, rain barrel installation, stream restoration, agricultural BMPs, and low impact development. I have developed display boards that we exhibit at local festivals and watershed events and I have created printed material that we distribute to the public. I have developed positive working relationships with faculty members at Penn State University. We have taken advantage of student expertise in the landscape architecture department and the Center for Watershed Stewardship program. I have been a guest speaker in PSU classes and I have assisted graduate students in their research.

*"Watershed Specialist Top Project Survey" Response*

Centre County Conservation District Project B

Title: The Development of a Stream Restoration Coalition in Centre County

Municipality: Multiple

Watershed: Multiple

Completed: Will be partially completed this year

Cost: 320000

Funding Source(s): GGCEI, NFWF, DCED, nisource, Dominion

Watershed Specialist: Ann Donovan --default

Categories: Watershed Protection, Streams & Lakes, Grant Writing, Other:

Narrative:

I was instrumental in the development of a Stream Restoration Coalition in Centre County. The District formed a working relationship with many partners, including USFWS, Pa Fish and Boat, NRCS, DEP, watershed associations, Trout Unlimited chapters, and local landowners. Together we identified specific projects, applied for and received funding from various sources and have begun to implement the restoration projects. We received \$150,000 from the GG County Initiative Program and \$150,000 from NFWF through Wildlife for Everyone. We received smaller grants from DCED, nisource, and Dominion and I secured donations from loggers and quarry owners. I have helped obtain landowner agreements, apply for permits, and create budgets for projects. We are participating in the North Central Pennsylvania Conservancy Fish Habitat Enhancement Program. This summer we are completing four major stream restoration projects in Centre County. I have assisted the Talleyrand Park committee with securing grant funding for riparian planting and we are in the process of completing that project. I have assisted the Bald Eagle Watershed Association in the development of a riparian stewardship program and we hope to plant our first extensive buffer this summer. I also have assisted our Aq technicians in the procurement of grant funding for the implementation of Agricultural BMPs. At the present time the District has Agricultural project funding in excess of \$600,000.

*"Watershed Specialist Top Project Survey" Response*

Centre County Conservation District Project C

*Title: Acting as primary support person for Centre County Watershed Associations*

*Municipality: Multiple*

*Watershed: Multiple*

*Completed: on going*

*Cost: Combined funding*

*Funding Source(s): GG, WREN, Dominion, NFWF,DCED, etc.*

*Watershed Specialist: Ann Donovan --default*

*Categories: Watershed Group Support / Capacity Building, Grant Writing, Watershed Protection, Other:*

*Narrative:*

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Beaver

Respondent: Marty Warchol/James E Shaner Position: Watershed Specialist/Board Chairman, Email: marty.warchol@bccdpa.us,

Current Watershed Specialist: Marty Warchol Years on job: 6

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Projects:

A: Beaver County Agricultural Initiative I, II, and III

B: Beaver County Buffers

C: BCCD Water Conservation Demonstration Project

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 787200251 Collector: 9226753

User Created: 5/6/2009 1:48:46 PM, User Last Accessed: 5/13/2009 8:12:12 PM,

User Computer I.P. 71.240.124.51

Sent to: marty.warchol@bccdpa.us, Marty Warchol, Beaver-WS

---

Merge Record 24

*"Watershed Specialist Top Project Survey" Response*

Beaver Project A

Title: Beaver County Agricultural Initiative I, II, and III

Municipality: Greene Twp, Independence Twp, Franklin Twp.

Watershed: Raccoon, Connoquenessing

Completed: 2008

Cost: 310000

Funding Source(s): Growing Greener

Watershed Specialist: Marty Warchol --default

Categories: Agricultural Conservation, Watershed Protection, Nutrient Management, Other:

Narrative:

The Agricultural Initiative targeted farms in the Raccoon Creek and Connoquenessing Creek watersheds where the lack of pasture management, inadequate roof runoff systems and barnyard runoff contributed to nonpoint source pollution from these farming operations. Aq BMPs such as manure storage facilities, streambank fencing, spring developments, stabilized stream crossings and roof runoff management systems were installed. The implementation of these site-specific Best Management Practices met the districts goal of improving water quality to receiving streams by reducing runoff, and it enabled the farmers to achieve the goals of their individual comprehensive farm plans. The project also helped fund nine nutrient management plans. A strong educational component was included and accomplished by a series of workshops and meetings. A workshop, "Managing Grazing Lands and Alternative Watering Systems" was held as well as a fencing workshop. Three meetings were held: Odor and Carcass Composting, Soils and Act 38 Regulations, and an equine grazing seminar. Partners were the ten farm owners and the Natural Resources Conservation Service (NRCS). The watershed specialist wrote and submitted the Aq I, II and III grants. She administered grants I and II, participated in planning and farm visits to help to oversee the projects.

*"Watershed Specialist Top Project Survey" Response*

Beaver Project B

Title: Beaver County Buffers

Municipality: Marion Twp. and Brighton Twp.

Watershed: Brush Creek and Bradys Run

Completed: 2007

Cost: 33000

Funding Source(s): Growing Greener and DCNR

Watershed Specialist: Marty Warchol --default

Categories: Erosion & Sedimentation, Nonpoint Source Pollution Education, Watershed Protection, Other:

Narrative:

Riparian buffers were planted along targeted portions of Bradys Run and Brush Creek with native trees, shrubs and wild flowers. Both areas are located within county parks where grass was being mowed up to the stream's edge. The purpose of the project was to help stabilize stream banks and minimize erosion, as well as provide food and habitat for wildlife. Three Rivers Habitat Partnership was our partner. Wood duck boxes were placed at both sites, and a bee block and bat house were placed at the Brush Creek site. Additional fund from DCNR made it possible to add more plants and interpretive signs the following year. A brochure was developed to educate the public regarding the benefits of riparian buffers and placed in brochure holders at the site. The sites were monitored regularly and the plants are thriving. The project created an accessible educational opportunity for park visitors. The watershed specialist wrote and administered both grants for this project. She ordered plant stock, helped plant the buffers and performed regular monitoring and maintenance. She created the sign content and the brochure.

*"Watershed Specialist Top Project Survey" Response*

Beaver Project C

Title: BCCD Water Conservation Demonstration Project

Municipality: Beaver County

Watershed: All county watersheds

Completed: On-going

Cost: 7000

Funding Source(s): DCED Community Grant

Watershed Specialist: Marty Warchol --default

Categories: Nonpoint Source Pollution Education, Stormwater Management, Watershed Protection,  
Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Luzerne

Respondent: shawn Rybka Position: Watershed Specialist, Email: s.rybka@luzernecd.org,

Current Watershed Specialist: shawn Rybkan Years on job: 8

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Projects:

A: Luzerne County Streambank Stabilization Program

B: Luzerne County D&G Roads Program

C: D&G Phase II

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 787113710 Collector: 9226753

User Created: 5/6/2009 11:36:10 AM, User Last Accessed: 5/19/2009 3:56:54 PM,

User Computer I.P. 208.81.73.33

Sent to: j.longmore@luzernecd.org, Josh Longmore, Luzerne-DM

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Merge Record 25

*"Watershed Specialist Top Project Survey" Response*

Luzerne Project A

Title: Luzerne County Streambank Stabilization Program

Municipality: Throught Luzerne County

Watershed: Little Wapwallopen Creek, Sugar Notch Run Creek and Toby's Creek.

Completed: 2008

Cost: 56528

Funding Source(s): Growing Greener

Watershed Specialist: Shawn Rybka

Categories: Erosion & Sedimentation, Watershed Protection, Erosion & Sedimentation, Other:

Narrative:

The District regularly receives requests from landowners for assistance with streambank erosion problems on private property. Currently there are no funding programs available to provide stream bank stabilization assistance on private property. This program provided a means for the District to work with landowners to reduce property loss and the resulting sediment pollution to Luzerne County streams and the downstream watershed. Over the past two years, there have been similar requests with an equivalent lack of funding to meet these requests. The district will look for more grant opportunities to further enhance its Stream bank Stabilization Program.

*"Watershed Specialist Top Project Survey" Response*

Luzerne Project B

Title: Luzerne County D&G Roads Program

Municipality: Dorrance, Jackson, and Fairmont Twp

Watershed: Big Wapwallopen creek, Little Wapwallopen, and Harvey's Creek.

Completed: 2006

Cost: 25000

Funding Source(s): Growing Greener Grant

Watershed Specialist: Josh Longmore

Categories: Dirt & Gravel Roads, Watershed Protection, Streams & Lakes, Other:

Narrative:

What was the project supposed to accomplish? In our Growing Greener grant application, the Luzerne Conservation District proposed to provide funding to municipalities for road surface and drainage improvements to dirt roads within Luzerne County. Our goal was to protect the county's water resources through the reduction of dust and sediment pollution from dirt and gravel roads. This, in turn, will result in the reduction of sediment and other pollutants to downstream water bodies, including the Susquehanna River and the Chesapeake Bay. The District also held a two day training event through the Dirt and Gravel Road Maintenance Program to educate municipalities and contractors on conservation issues and BMPs. What did you actually do, and how was it different from your plan? The Luzerne Conservation District was able to provide funding for one project which was a major contributor of sediment to Big Wapwallopen creek, Little Wapwallopen, and Harvey's Creek. The measurable outcomes of the program were the following quantification: 95,040 Square feet of Road Surface Stabilized 10,560 Square feet of Road Bank Stabilized 15,840 Square Feet of Road Ditch Stabilized 8 Number of Cross pipes or Culverts Installed What were your successes and reasons for your success? The District's successes were being able to stabilize a one mile dirt road that contributed mass sediment loads to Big Wapwallopen creek and also educating the locally municipality about the D&G roads program and techniques use to prevent sediment into the streams. What problems were encountered and how you dealt with them? We were unable to start this project in early spring because of wet working conditions. The township just did some rescheduling and the project was a success. How your work contributed to solution of original problems? Our project was successful in providing funding for safe, efficient, and environmentally sound maintenance of dirt and gravel roads within the municipalities of Luzerne County. If the district did not receive this grant it would not have been able to fund such a project. What else needs to be done? There will always be a need for this type of

*"Watershed Specialist Top Project Survey" Response*

program. In 2007, the Luzerne Conservation District received requests for assistance for over \$80,000 from municipalities on projects that have been previously identified through the current Dirt and Gravel Road Program as causing sediment pollution to waters of the Commonwealth. The District only received approximately \$25,000 from the State Conservation Commission to address these sites. Over the past three years, there have been similar requests with an equivalent lack of funding to meet these requests. The district will look for more grant opportunities to further enhance its D&G roads program. What are your plans for dissemination results of your work? We will publish an article in the winter issue of the Luzerne Conservation District's newsletter summarizing the project as well. How well did your spending align with your budget request? Our spending aligned well with our budget request. The district did 3 projects and completed a reassessment of all of our D&G roads in the county. Summary The Luzerne County Dirt and Gravel Roads Best Management Practice Program was a great success. We completed 3 great projects and completed a reassessment of all the D&G roads in Luzerne County.

*"Watershed Specialist Top Project Survey" Response*

Luzerne Project C

Title: D&G Phase II

Municipality: Dorrance and Jackson Twp

Watershed: Big Wapwallopen creek, Little Wapwallopen, and Harvey's Creek.

Completed: 2008

Cost: 74000

Funding Source(s): Growing Greener

Watershed Specialist: Shawn Rybka

Categories: Dirt & Gravel Roads, Watershed Protection, Streams & Lakes, Other: Abandoned Mine Drainage Discharge Remediation

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Westmoreland

Respondent: Rob Cronauer Position: Watershed Specialist, Email: robcronauer@yahoo.com,

Current Watershed Specialist: Rob Cronauer Years on job: (4 as WS in Franklin Co.) 2 as E&S and 3 as WS in Westmoreland

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Projects:

A: Brinkerton AMD Treatment System

B: Ridge Road Stabilization

C: Pucketa Creek Stormwater Management

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 786656695 Collector: 9226753

User Created: 5/5/2009 6:47:09 PM, User Last Accessed: 5/15/2009 11:43:59 AM,

User Computer I.P. 75.149.11.33

Sent to: robcronauer@yahoo.com, Rob Cronauer, Westmoreland-WS

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Merge Record 26

*"Watershed Specialist Top Project Survey" Response*

Westmoreland Project A

Title: Brinkerton AMD Treatment System

Municipality: Mt. Pleasant Twp.

Watershed: Sewickley Creek

Completed: 2009 major completion, system still needs aerators

Cost: ~\$750,000

Funding Source(s): 319 and Growing Greener

Watershed Specialist: Rob Cronauer

Categories: Watershed Protection, Wetlands, Streams & Lakes, Other:

Narrative:

This project has been ongoing since the late 1990's. The goal was to successfully treat a 2000-4000 gpm flow of AMD. To accomplish this, a 9 acre wetland was created with 3 separate cells. The retention time created allows the iron to be removed from the water before entering Sewickley Creek. Currently the system reduces iron by 80%. With the addition of a proposed aerator that percentage will hopefully increase. This project was a great transition for Rob from E&S tech. to Watershed Specialist, as a portion of the largest E&S settlement in the county (from Rob's enforcement) was used to fund the completion of this site; along with a County Environmental Initiative Growing Greener grant. Partners included WPCAMR, WPC, Sewickley Creek Watershed Assoc., and DEP.

*"Watershed Specialist Top Project Survey" Response*

Westmoreland Project B

*Title: Ridge Road Stabilization*

*Municipality: Donegal Twp.*

*Watershed: Loyalhanna Creek*

*Completed: current*

*Cost: 50000*

*Funding Source(s): Growing Greener County Initiative*

*Watershed Specialist: Rob Cronauer*

*Categories: Dirt & Gravel Roads, Erosion & Sedimentation, Nonpoint Source Pollution Education, Other:*

*Narrative:*

*This project combines practices used with the Dirt and Gravel Road program and applies it to a site using funds provided by Growing Greener. The road is approximately 2000 feet long with severe erosion due to poor management practices, combined with off site issues regarding an abandon mine land. Partners include DEP, Dirt and Gravel Road Program, and Donegal Twp.*

*"Watershed Specialist Top Project Survey" Response*

Westmoreland Project C

*Title: Pucketa Creek Stormwater Management*

*Municipality: New Kensington and Lower Burrell*

*Watershed: Little Pucketa Creek*

*Completed: Phase I 2008, many phases to follow*

*Cost: 418000*

*Funding Source(s): Safe Water Appropriation Grant, Growing Greener, Colcolm, PADOT*

*Watershed Specialist: Rob Cronauer*

*Categories: Stormwater Management, Watershed Protection, Watershed Planning, Other:*

*Narrative:*

*12:00:00 AM*

*"Watershed Specialist Top Project Survey" Response*

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County: Franklin

Respondent: Tammy Gross Position: Watershed Specialist, Email: tammygross@embarqmail.com,

Current Watershed Specialist: Tammy Gross Years on job: 5

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Projects:

A: ACRE Agricultural Watershed Assessment for Little Cove Creek

B: Growing Native Program

C: Dennis Creek & Back Creek Restoration Project

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 786640293 Collector: 9226753

User Created: 5/5/2009 6:28:18 PM, User Last Accessed: 5/12/2009 5:59:53 PM,

User Computer I.P. 65.40.128.12

Sent to: tammygross@embarqmail.com, Tammy Gross, Franklin-WS

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Merge Record 27

*"Watershed Specialist Top Project Survey" Response*

Franklin Project A

Title: ACRE Agricultural Watershed Assessment for Little Cove Creek

Municipality: Warren Township

Watershed: Little Cove Creek

Completed: 2008

Cost: 16906.43

Funding Source(s): ACRE Grant

Watershed Specialist: Tammy Gross --default

Categories: Nutrient Management, Erosion & Sedimentation, Watershed Protection, Other:

Narrative:

The District conducted field evaluations for all ag facilities willing to participate along with monthly stream monitoring at three sites in Little Cove Creek. The farm headquarters, cropland, and pastureland were examined for signs of erosion and nutrient management issues during each field assessment. Recommended BMP's were identified on the evaluation form and on our ArcView GIS mapping program. The proposed BMP's are currently being considered for funding via a CEI/GGII grant allotment and will be implemented upon approval by DEP. The District was able to partner with DEP, FSA, NRCS, MD ARS, Shippensburg University interns. The environmental outcomes included sediment and nutrient pollution awareness & reduction, District outreach & assistance, updated conservation plans, and new nutrient management plans. The role of the Watershed Specialist was to apply for and administer the ACRE grant, create the evaluation form, set up the introductory workshop for Little Cove landowners & municipal officials, conduct all assessments, monitor each stream site, record all data electronically, and seek funds for recommended BMP's. Once funding is officially secured, the Watershed Specialist will also be assisting with landowner agreements, permits, designs, construction supervision, and certification of each completed project.

*"Watershed Specialist Top Project Survey" Response*

Franklin Project B

Title: Growing Native Program

Municipality: Chambersburg Boro., Washington Twp., Peters Twp., & Antrim Twp.

Watershed: Conococheague Creek & Antietam Creek

Completed: Ongoing since 2005

Cost: 7725.49

Funding Source(s): Potomac Conservancy/DEP Small Grant

Watershed Specialist: Tammy Gross --default

Categories: Watershed Protection, Forestry/Woodlot/Logging, Erosion & Sedimentation, Other: Youth Conservation Education

Narrative:

The Growing Native Program was developed by the Potomac Conservancy and introduced to our District in 2005. The program encourages local citizens, community groups, schools, and others to collect tree seed native to this area. The seed is then planted in pots (known as "grow-out stations") and cared for until the 2-year-old seedlings are ready to be placed along a riparian buffer. Here in Franklin County, we have taken this program a step further by also gathering cuttings, which can be planted along streams as well. The District frequently gets requests for free or low-cost seedlings from local citizens and this program helps to meet these needs. The partners involved in this project include Wilson College, Penn State-Mont Alto, Antietam Watershed Association, Tayamentasachta Environmental Center, Tuscarora Wildlife Education Program, Mercersburg School District, Greencastle-Antrim School District, Chambersburg School District, DEP, Potomac Conservancy, and DCNR-Bureau of Forestry. The environmental outcomes include planting seedlings along our local streams to improve water quality by filtering out pollutants & stabilizing stream banks, shade the stream to benefit the aquatic life, and provide habitat & food (seed) for wildlife. Students, scouts, and adults learn about the importance of the environment and how to be good stewards. Each year, hundreds of kids absorb these valuable lessons and return home to share them with their family, friends, and neighbors. The role of the Watershed Specialist is to organize fall seed collections, winter cuttings collections, & spring planting events, as well as assist with furnishing supplies for each grow-out station, successfully propagating healthy seedlings, and seek additional funding/donations when necessary.

*"Watershed Specialist Top Project Survey" Response*

Franklin Project C

*Title: Dennis Creek & Back Creek Restoration Project*

*Municipality: Hamilton Twp. & St. Thomas Twp.*

*Watershed: Dennis Creek & Back Creek*

*Completed: 2005*

*Cost: \$8,173.56 + (This figure only represents costs incurred for work done within Back Creek; Dennis Creek costs are unknown)*

*Funding Source(s): Franklin County Watershed Association*

*Watershed Specialist: Robert Cronauer & Tammy Gross*

*Categories: Watershed Protection, Erosion & Sedimentation, Agricultural Conservation, Other:*

*Narrative:*

*12:00:00 AM*

*"Watershed Specialist Top Project Survey" Response*

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County: Delaware

Respondent: Brian J. Vadino Position: Watershed Specialist, Email: VadinoB@co.delaware.pa.us,

Current Watershed Specialist: Brian J. Vadino Years on job: 8 Months as DCCD Watershed Spec. 10 Years Conservation Experience

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Projects:

A: Delaware County "Tree Vitalize Watersheds" Projects

B: Bartram Park Streambank Restoration Project

C: Delaware County Conservation District Community Floodplain Management Monitoring Program

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 786634374 Collector: 9226753

User Created: 5/5/2009 6:26:00 PM, User Last Accessed: 5/15/2009 1:22:02 PM,

User Computer I.P. 75.151.171.121

Sent to: vadinob@co.delaware.pa.us, Brian Vadino, Delaware-WS

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Merge Record 28

*"Watershed Specialist Top Project Survey" Response*

Delaware Project A

Title: Delaware County "Tree Vitalize Watersheds" Projects

Municipality: Middletown Twp., Nether Providence Twp., Swarthmore Borough, Edgmont Twp, Ridley Park Borough

Watershed: Chester Creek, Ridley Creek, Crum Creek (Tributaries of Delaware River)

Completed: To be completed 2009. Funding approved.

Cost: \$ 50,000.00 (Total Project Cost)

Funding Source(s): PA Horticultural Society (through PA Department of Environmental Protection and Aqua PA), Chester-Ridley-Crum Watersheds Association and County of Delaware

Watershed Specialist: Brian J. Vadino (current)

Categories: Watershed Protection, Erosion & Sedimentation, Streams & Lakes, Other:

Narrative:

As a member of the Southeast PA Tree Vitalize Advisory Committee, the Watershed Specialist provides guidance, exchanges information, advocates for urban forestry, and helps make connections with potential Tree Vitalize stakeholders throughout the region. During the Fall of 2008, the Watershed Specialist worked directly with the Chester-Ridley-Crum Watersheds Association and its partners to 1) identify high priority riparian buffer restoration and enhancement project sites, 2) conduct watershed conservation educational outreach activities with landowners, 3) secure Landowner and Operation & Maintenance Agreements, 4) develop riparian forest buffer restoration and enhancement plans, and 5) submit Tree Vitalize Watersheds funding applications/bids to the PA Horticultural Society. As a result of these efforts the Delaware County Conservation District's Watershed Specialist was instrumental in securing Tree Vitalize Watersheds grant funding (\$29,838.00), from the PA Horticultural Society, for the completion of six riparian buffer restoration and enhancement projects in Delaware County. The Delaware County Conservation District (through its portion of Watershed Specialist cost share), the Chester-Ridley-Crum Watersheds Association, and other Delaware County Tree Vitalize project partners (including Ridley Creek State Park, Mills at Rose Valley Homeowners Association, Swarthmore College, Canter Village Homeowners Association, Springton Point Homeowners Association and Ridley Park Borough) have pledged matching funding (\$20,162.00) for the remaining project cost. Upon completion in 2009, the project will result in the planting of 355 trees, 125 shrubs, 200 grass plugs and 32 lbs. of native conservation seed mixtures. These plantings will result in the establishment of an additional 7.24 acres of riparian forest buffer along public and private lands bordering the Chester, Ridley and Crum Creeks in Delaware County. Various project partnerships have been created to conduct long-term

*"Watershed Specialist Top Project Survey" Response*

*maintenance (invasive plant removal) activities to ensure the long-term success of the projects. The projects will also result in increased education and environmental awareness for local residents and municipalities regarding the value of Conservation Best Management Practices in reducing non-point source pollution, improving water quality and enhancing aquatic and wildlife habitats.*

*"Watershed Specialist Top Project Survey" Response*

Delaware Project B

Title: Bartram Park Streambank Restoration Project

Municipality: Darby Borough

Watershed: Darby Creek (Tributary of Delaware River)

Completed: 37895

Cost: \$112,400.00 (Total Project Cost)

Funding Source(s): PA DEP Coastal Zone Grant (\$ 71,400.00), Delaware Estuary Grant (\$ 5,000.00) and Match (including in-kind) (\$ 36,000.00)

Watershed Specialist: Bill Gothier

Categories: Watershed Protection, Erosion & Sedimentation, Nonpoint Source Pollution Education, Other:

Narrative:

To effectively address community public safety and environmental concerns resulting from the exposure of an active sewer line and the increasing proximity of 5' high, vertical, actively eroding stream banks to a heavily used community playground area, Delaware County Conservation District's Watershed Specialist was instrumental in 1) securing a PA DEP Coastal Zone Grant grant funding, 2) acquiring the necessary PA DEP permit authorizations, and 3) overseeing all aspects of implementation necessary to complete the Bartram Park Streambank Restoration Project. The goal of the project was to stabilize and restore approximately 300 linear feet the stream channel, stream banks and floodplain utilizing Natural Stream Channel Design methods, and to establish approximately 1.5 acres of native riparian buffer area along the Darby Creek through Bartram Park (Darby Borough). The Watershed Specialist, in order to complete the multi-faceted project, played a lead role in assembling a broad-based partnership consisting of state agencies (PA Department of Environmental Protection), county agencies (Delaware County Conservation District, Delaware County Community Service), regional authorities (Delaware County Regional Water Quality Control Authority) non-profit watershed organizations (Darby Creek Valley Association, Delaware Riverkeeper Network), municipal entities (Darby Borough, Darby Fire Department), academic institutions (Penn Wood West J. high School) and local residents. Completed in October 2003, the project has resulted in the stabilization and restoration of 300 linear feet of the Darby Creek (including construction of a W-Weir and other habitat improvement structures), planting of a 1.5 acres of riparian buffer consisting of 400 native trees and shrubs, and placement of educational signage explaining the project. Various project partnerships have been forged to conduct long-term maintenance activities (invasive plant removal) to ensure the long-term success of the project. The project will also result in increased education and environmental awareness for local residents and municipalities

*"Watershed Specialist Top Project Survey" Response*

*regarding the value of Conservation Best Management Practices in reducing non-point source pollution, improving water quality and enhancing aquatic and wildlife habitats.*

*"Watershed Specialist Top Project Survey" Response*

Delaware Project C

Title: Delaware County Conservation District Community Floodplain Management Monitoring Program

Municipality: Chadds Ford, Concord, Middletown, Upper Providence, Radnor, Media, Brookhaven, Springfield, Swarthmore, Chester, Upland, Parkside, Ridley, Rutledge, Morton, Darby Borough, Aldan, Collingdale, Sharon Hill, Darby Township, Tinicum

Watershed: Brandywine Creek, Chester Creek, Ridley Creek, Crum Creek, Darby Creek (Tributaries of Delaware River)

Completed: 36951

Cost: \$ 8,000.00 (PA DCED Grant Amount), \$ 5,000.00 (Estimated Municipal in-Kind), \$ 13,000.00 (Estimated Total Project Cost)

Funding Source(s): Pennsylvania Department of Community and Economic Development

Watershed Specialist: Bill Gothier

Categories: Floodplain Monitoring, Watershed Planning, Watershed Protection, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: CAMBRIA

Respondent: ROBB PIPER Position: MANAGER, Email: piper@co.cambria.pa.us,

Current Watershed Specialist: Bryan Rabish & Jacqueline Ritko Years on job: 9 & 13 respectively

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Projects:

A: Cambria County Children's Watershed Festivals

B: Little Conemaugh Communities Outreach Project

C: PA Stream Releaf

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 786607539 Collector: 9209755

User Created: 5/5/2009 5:58:14 PM, User Last Accessed: 5/5/2009 7:08:20 PM,

User Computer I.P. 65.112.68.2

Sent to: piper@co.cambria.pa.us, Robb Piper, Cambria-DM

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Merge Record 29

*"Watershed Specialist Top Project Survey" Response*

CAMBRIA Project A

Title: Cambria County Children's Watershed Festivals

Municipality: County Wide

Watershed: County Wide

Completed: 2005, 2006, 2007

Cost: 13800

Funding Source(s): 2005-League of Women's Voters \$5,000 & Dominion Energy \$5,000; 2006 PACD Mini-Grant \$2,169; 2007 DEP Mini-Education Grant \$1,633.71

Watershed Specialist: Jacqueline Ritko

Categories: Nonpoint Source Pollution Education, Watershed Protection, Wetlands, Other:

Narrative:

Project partners were the grantors, Penn Highlands Community College and the Little Conemaugh Watershed Association. Each year approximately 650 sixth grade students from across Cambria County were participants in the day long water festival. Jackie wrote the grant applications, coordinated all communications, managed logistics, and created the program each of the three years. She was responsible for managing the grant budgets, reimbursements and managing the third party contracts for each event.

*"Watershed Specialist Top Project Survey" Response*

CAMBRIA Project B

Title: Little Conemaugh Communities Outreach Project

Municipality: Adams, Croyle, Summerhill, Portage, Summerhill Borough, Wilmore Borough

Watershed: Little Conemaugh River Watershed

Completed: 2004-2005

Cost: 30700

Funding Source(s): AmeriCorps Vista, Growing Greener

Watershed Specialist: Jacqueline Ritko

Categories: Watershed Group Support / Capacity Building, Watershed Group Support / Capacity Building, Watershed Protection, Other:

Narrative:

Partners included the six municipalities, SCI-Cresson, AmeriCorps Vista, Canaan Valley Institute (CVI), Cambria County Commissioners, and the Little Conemaugh Watershed Association. the municipalities erected stream signage of all their major streams. SCI-Cresson's Inmate Program was used to remove large amounts of trash from several illegal dump sites along the Conemaugh River. Two AmeriCorps Vista participants valued at \$24,000 (2005) were housed in the county environmental education center, Disaster's Edge." CVI provided \$1,700 for a display board, and brochure development for the Little Conemaugh Watershed Association that appeared in various schools and locations throughout the watershed. GG provided \$5,000 for a Streambank restoration project on Lick Run (Little Conemaugh Trib) where root wads, and rip-rap were used to restore a segment of streambank that was near the Disaster's Edge that could be used for demonstration purposes in the future. Jackie wrote the grant applications, administered the budget, managed the AmeriCorps Vista participants, managed the third party contracts, coordinated all municipal communications and logistics, and completed all grant final reports.

*"Watershed Specialist Top Project Survey" Response*

CAMBRIA Project C

Title: PA Stream Releaf

Municipality: Munster Twp and West Carroll Twp

Watershed: West Branch Susquehanna River

Completed: 2005, 2006

Cost: 1750

Funding Source(s): DEP

Watershed Specialist: Bryan Rabish

Categories: Streams & Lakes, Abandoned Mine Reclamation, Nutrient Management, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Tioga

Respondent: Erica Tomlinson Position: Watershed Specialist, Email: erica.tomlinson@pa.nacdnet.net,

Current Watershed Specialist: Erica Tomlinson Years on job: 1.5 years

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Projects:

A: Wilson Creek Project

B: Corey Creek Watershed

C: Tioga River Projects

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 786290640 Collector: 9226753

User Created: 5/5/2009 12:18:52 PM, User Last Accessed: 5/7/2009 3:59:17 PM,

User Computer I.P. 199.144.193.75

Sent to: erica.tomlinson@pa.nacdnet.net, Erica Tomlinson, Tioga-WS

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Merge Record 30

*"Watershed Specialist Top Project Survey" Response*

Tioga Project A

Title: Wilson Creek Project

Municipality: Delmar Township

Watershed: Wilson Creek

Completed: On going

Cost: 730,000 (current projects)

Funding Source(s): Growing Greener, Chesapeake Bay Special Projects, NRCS EQIP

Watershed Specialist: Erica Tomlinson --default

Categories: Agricultural Conservation, Dirt & Gravel Roads, Abandoned Mine Reclamation, Other: Watershed Planning

Narrative:

The Wilson Creek Project is a combination of projects that has been facilitated by the Watershed Specialist, Wilson Creek Committee, Babb Creek Watershed Association, Natural Resources Conservation Service, Department of Conservation of Natural Resources, and other staff at the Tioga County Conservation District. The Wilson Creek Project started by installing Acid Mine Drainage projects within the watershed, which were very successful. The next step was the completion of a watershed assessment and the construction of the Wilson Creek Management Plan and Demonstration Project. This document was then used to outline future projects and was justification for the 2008 round of Growing Greener and Chesapeake Bay Special Project Grants. The District was awarded grants for the following projects: Agricultural Best Management Practices such as; animal walkways, laneway stabilization, streambank fencing, riparian buffers, and roof gutters and improving approximately two miles of dirt and gravel roads. Due to the partnerships available in the watershed the Wilson Creek Watershed was named a priority watershed through both DEP and NRCS which opened various funding opportunities. The funding through NRCS is being used for Agricultural BMP's such as a manure storage and streambank fencing. The watershed specialists throughout the last several years have been instrumental in coordinating projects, assessments, and the partnerships for the Wilson Creek Project.

*"Watershed Specialist Top Project Survey" Response*

Tioga Project B

Title: Corey Creek Watershed

Municipality: Sullivan/Richmond Townships

Watershed: Corey Creek

Completed: On going

Cost: approx. \$360,000

Funding Source(s): DEP Growing Greener

Watershed Specialist: Terra Dillman/Erica Tomlinson(current)

Categories: Agricultural Conservation, Watershed Group Support / Capacity Building, Streams & Lakes, Other:

Narrative:

The watershed specialist was instrumental in forming the Corey Creek Watershed Association. The Corey Creek Watershed has recieved several grants to improve the both sediment and nutrients reaching the stream. The projects include agricultural best management practices, an assessment of the watershed, improvment of 1345 feet of Corey Creek through natural stream channel design techniques, log delfectors, and riparian buffers. One more project is scheduled for this spring that includes Pa Fish and Boat stream bank enhancement structures on a small tributary to Corey Creek. The watershed specialist was responsible for either applying directly for these grants and helping to implent the practices or in assisting with the implementation of the projects.

*"Watershed Specialist Top Project Survey" Response*

Tioga Project C

*Title: Tioga River Projects*

*Municipality: WardTownship*

*Watershed: Tioga River*

*Completed: On going*

*Cost: 295000*

*Funding Source(s): DEP Growing Greener*

*Watershed Specialist: Jason Weigle*

*Categories: , , , Other: Acid Deposition*

*Narrative:*

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Mifflin County

Respondent: Dan Dunmire Position: District Manager, Email: ddunmire@mifflinccd.com,

Current Watershed Specialist: Cadie Pruss Years on job: nine

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Projects:

A: Kishacoquillas Watershed Assessment

B: Upper Kishacoquillas 319 Watershed Implementation Plan

C: Little Kishacoquillas Natural Stream Design Project

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 785736890 Collector: 9226753

User Created: 5/4/2009 5:21:35 PM, User Last Accessed: 5/4/2009 6:44:40 PM,

User Computer I.P. 65.79.241.64

Sent to: ddunmire@mifflinccd.com, Dan Dunmire, Mifflin-DM

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Merge Record 31

*"Watershed Specialist Top Project Survey" Response*

Mifflin County Project A

Title: Kishacoquillas Watershed Assessment

Municipality: Menno, Union, Brown, & Armagh

Watershed: Kishacoquillas

Completed: 2003

Cost: 190000

Funding Source(s): Growing Greener

Watershed Specialist: Cadie Pruss

Categories: Watershed Planning, , , Other:

Narrative:

Watershed Specialist completed a comprehensive assessment that included water quality monitoring at 57 different sample sites. Chemical, biological & habitat assessment data was collected & analyzed to determine areas of impairment in the 190+ sq. mi. watershed. Public meetings & a mail-in survey were conducted to collect information from watershed residents & stakeholders. In addition, a number of aqu conservation BMPs were implemented as demonstration projects, including several on Amish farms. Project partners included Mifflin Co. GIS Dept., DEP, & PSU Cooperative Extension. The result was an enhanced awareness & focus on the water quality problems in the watershed.

*"Watershed Specialist Top Project Survey" Response*

Mifflin County Project B

Title: Upper Kishacoquillas 319 Watershed Implementation Plan

Municipality: Menno, Union

Watershed: Kishacoquillas

Completed: 2006

Cost: 14000

Funding Source(s): 319 NPS Program

Watershed Specialist: Cadie Pruss

Categories: Watershed Planning, , , Other:

Narrative:

Watershed Specialist completed a 319 watershed implementation plan on the 303(d) listed Upper Kish (& later the Hungry Run subbasin) that addressed the identified aq-related water quality impairments (sediment & nutrients) & calculated a "road map" for restoration with a farm by farm plan of BMPs needed to attain designated water quality criteria. This was done in a watershed with 140+ farms, of which 2/3 are owned by Amish, and is the first 319 implementation plan done for a watershed without a TMDL. Approval of the Upper Kish (and Hungry Run) watershed implementation plans by DEP & EPA has subsequently enabled the Conservation District to leverage almost \$ 1 million in 319 implementation funds to restore these impaired watersheds. Partners include DEP & EPA.

*"Watershed Specialist Top Project Survey" Response*

Mifflin County Project C

Title: Little Kishacoquillas Natural Stream Design Project

Municipality: Menno

Watershed: Little Kishacoquillas

Completed: 2005

Cost: 132243

Funding Source(s): 319 NPS Program

Watershed Specialist: Cadie Pruss

Categories: , , , Other: watershed restoration

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Washington

Respondent: Gary Stokum Position: District Manager, Email: washccd@yahoo.com,

Current Watershed Specialist: Julie Sigler Years on job: 2

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Projects:

A: Cross Creek Stream Restoration at Meadowcroft Rockshelter

B: JB#2 Abandoned Mine Drainage Treatment System

C: Canonsburg Lake Recreational Improvement Plan / Aquatic Ecosystem Restoration

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 785722214 Collector: 9226753

User Created: 5/4/2009 5:12:37 PM, User Last Accessed: 5/4/2009 6:38:38 PM,

User Computer I.P. 199.144.197.247

Sent to: jsigler@pawccd.org, Julie Sigler, Washington-WS

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Merge Record 32

*"Watershed Specialist Top Project Survey" Response*

Washington Project A

Title: Cross Creek Stream Restoration at Meadowcroft Rockshelter

Municipality: Jefferson Township

Watershed: Cross Creek

Completed: 2008

Cost: 35485.49

Funding Source(s): DEP Growing Greener, Community Foundation for the Alleghenies

Watershed Specialist: Julie Sigler --default

Categories: Streams & Lakes, Watershed Group Support / Capacity Building, , Other: National historical site preservation

Narrative:

The project restored damage to the streambank of Cross Creek due to increased flood waters generated by Hurricane Ivan. Severe erosion occurred to the bank immediately in front of the Meadowcroft Rockshelter. The Rockshelter is the oldest known site of human habitation in North America at this point in time. The project installed a cross rock vane to direct the flow of water away from the bank and toward the center stream channel. The Cross Creek Watershed Association adopted the project in cooperation with the Meadowcroft Museum of Rural Life and the Senator John Heinz History Center to stabilize the streambank to ensure safety and stability of the Rockshelter. The Watershed Specialist was responsible for managing the project, overseeing design, ordering historically accurate stream plantings, coordinating with all involved, preparing the bid package, submitting quarterly reports and reimbursement claims, submitting final report, organizing planting with local Boy Scout Troop 1366, Cross Creek Watershed Association, Conservation District staff, and other community volunteers.

*"Watershed Specialist Top Project Survey" Response*

Washington Project B

Title: JB#2 Abandoned Mine Drainage Treatment System

Municipality: Smith Township

Watershed: Raccoon Creek

Completed: 2009

Cost: 652965

Funding Source(s): DEP Growing Greener, EPA 319, DEP Penalty money, WPCAMR

Watershed Specialist: Laurie Popeck, Susan Carmichael, Julie Sigler

Categories: Abandoned Mine Reclamation, , , Other:

Narrative:

High iron, low alkaline, high acidic abandoned deep mine discharge on the main branch of Raccoon Creek towards the headwaters. System was originally designed by DEP Bureau of Abandoned Mine Reclamation Ebensburg office as a vertical flow wetland system. Due to high iron content of the system the mushroom compost in the wetlands became plugged within a two year span, requiring us to obtain emergency funds through WPCAMR to remove the compost to prevent overtopping of the pond. With assistance from Brent Means of the Federal Office of Surface Mining and consultation with BAMR we are now in the process of converting the system to a FEALMN alkaline addition system which should be accomplished by the summer of 2009. Watershed Specialists have been extremely involved in this process for many years.

*"Watershed Specialist Top Project Survey" Response*

Washington Project C

Title: Canonsburg Lake Recreational Improvement Plan / Aquatic Ecosystem Restoration

Municipality: Peters Township / North Strabane Township

Watershed: Chartiers Creek

Completed: ongoing

Cost: \$40,000 for Site Plan, \$6,047,463.21 for Aquatic Ecosystem Restoration

Funding Source(s): DCNR, Army Corps of Engineers

Watershed Specialist: Susan Carmichael, Julie Sigler

Categories: Streams & Lakes, Watershed Group Support / Capacity Building, , Other: Public recreation

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Somerset

Respondent: Len Lichvar Position: District Manager, Email: Len-scd@wpia.net,

Current Watershed Specialist: Dave Kemp Years on job: 4

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Projects:

A: Boswell AMD Passive Treatment System

B: Bioenergy - One Million Tree Project

C: Lauel Run Cold Water Conservation Plan

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 785686176 Collector: 9226753

User Created: 5/4/2009 4:34:35 PM, User Last Accessed: 5/4/2009 7:47:19 PM,

User Computer I.P. 216.9.163.72

Sent to: len-scd@wpia.net, Len Lichvar, Somerset-DM

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Merge Record 33

*"Watershed Specialist Top Project Survey" Response*

Somerset Project A

Title: Boswell AMD Passive Treatment System

Municipality: Jennerstown Borough

Watershed: Quemahoning Creek

Completed: 2006

Cost: 750000

Funding Source(s): PA DEP, OSM

Watershed Specialist: Carl Jones

Categories: Abandoned Mine Reclamation, Watershed Protection, Land/Open Space Preservation, Other: Environmental Education

Narrative:

The project abated the largest single source of AMD into the Quemahoning Creek watershed that has now restored 6 miles of fishery and protects and restores the water quality of the Quemahoning Reservoir. The project consists of an extensive wetland passive treatment. Partners included, Somerset County Conservancy, Jenner Road and Gun Club, Mountain Laurel Chapter of Trout Unlimited, OSM PA DEP, Jenner Township Supervisors, Jennerstown Borough, Earth Tech, PA Game Commission, SCRIP. The watershed specialist wrote the grants that secured the funding, coordinated the permitting process with PA DEP, administered the grants, coordinated the partners activities and meetings, completed all required reports and monitored the water quality impacts of the project.

*"Watershed Specialist Top Project Survey" Response*

Somerset Project B

Title: Bioenergy - One Million Tree Project

Municipality: Somerset County

Watershed: various

Completed: ongoing

Cost: 100000

Funding Source(s): PA DEP, private industry

Watershed Specialist: Dave Kemp --default

Categories: Renewable Resources/Recycling, Nutrient Management, Watershed Protection, Other:

Narrative:

The program is to develop a sustainable and renewable energy source using fast growing hybrid poplar trees. The goal is to create a woody biomass for wood pellets and other cellulosic energy. Nutrients are and will be transferred from the Chesapeake Bay watershed to be used as a soil amendment to the nutrient poor soils to generate faster growth of the poplar trees. The trees are and will be planted according to protocols established by the Somerset Conservation District. The trees will be harvested for wood chips and biofuels. The district will retain carbon and nutrient trading credits that are generated. Partners include PA DEP, local mining companies, PA Department of Agriculture, U. S. Gypsum, Penn State, private agricultural entities, private landowners. The ongoing project is seeking to establish a renewable source of energy and ongoing soil enhancement program.

*"Watershed Specialist Top Project Survey" Response*

Somerset Project C

Title: Lauel Run Cold Water Conservation Plan

Municipality: Larimer, Northampton Townships Somerset County

Watershed: Wills Creek

Completed: 2006

Cost: 75000

Funding Source(s): PA DCNR

Watershed Specialist: Dave Kemp --default

Categories: Watershed Planning, Watershed Protection, Erosion & Sedimentation, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: CLEARFIELD

Respondent: SUSAN REED Position: DISTRICT MANAGER, Email: sreedccd@atlanticbbn.net,

Current Watershed Specialist: KELLY WILLIAMS Years on job: 2 MONTHS

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Projects:

A:

B:

C:

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 785512135 Collector: 9226753

User Created: 5/4/2009 1:17:34 PM, User Last Accessed: 5/4/2009 1:19:57 PM,

User Computer I.P. 207.255.156.238

Sent to: sreedccd@atlanticbbn.net, Susan Reed, Clearfield-DM

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Merge Record 34

*"Watershed Specialist Top Project Survey" Response*

CLEARFIELD Project A

Title:

Municipality:

Watershed:

Completed:

Cost:

Funding Source(s):

Watershed Specialist: KELLY WILLIAMS --default

Categories: , , , Other:

Narrative:

*"Watershed Specialist Top Project Survey" Response*

CLEARFIELD *Project B*

*Title:*

*Municipality:*

*Watershed:*

*Completed:*

*Cost:*

*Funding Source(s):*

*Watershed Specialist: KELLY WILLIAMS --default*

*Categories: , , , Other:*

*Narrative:*

*"Watershed Specialist Top Project Survey" Response*

CLEARFIELD *Project C*

*Title:*

*Municipality:*

*Watershed:*

*Completed:*

*Cost:*

*Funding Source(s):*

*Watershed Specialist: KELLY WILLIAMS --default*

*Categories: , , , Other:*

*Narrative:*

*"Watershed Specialist Top Project Survey" Response*

---

County: Lebanon County

Respondent: Stephanie Harmon Position: Watershed Specialist, Email:  
stephanie.harmon@pa.nacdnet.net,

Current Watershed Specialist: Stephanie Harmon Years on job: 9 as Watershed Specialist(\*one of the original WS) and 10th year with District

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Projects:

A: Annual Lebanon/Lancaster County Watershed Forum

B: Lebanon County Rain Barrel Workshops

C: Lebanon Valley Agricultural Center-Rain Garden

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 785473604 Collector: 9226753

User Created: 5/4/2009 12:10:30 PM, User Last Accessed: 5/13/2009 7:55:29 PM,

User Computer I.P. 199.144.172.244

Sent to: stephanie.harmon@pa.nacdnet.net, Stephanie Harmon, Lebanon-WS

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Merge Record 35

*"Watershed Specialist Top Project Survey" Response*

Lebanon County Project A

Title: Annual Lebanon/Lancaster County Watershed Forum

Municipality: All Lebanon and Lancaster County municipalities

Watershed: All Lebanon and Lancaster County watersheds

Completed: Held annually since 2003

Cost: \$2000-\$3000

Funding Source(s): WREN, PACD Mini-grants

Watershed Specialist: Stephanie Harmon --default

Categories: Watershed Group Support / Capacity Building, Watershed Protection, Nonpoint Source Pollution Education, Other: educational forum and networking opportunity to stimulate awareness and interest for the local watershed associations of both counties

Narrative:

Both Lancaster & Lebanon County Conservation Districts are actively involved in fostering grassroots watershed efforts. The Watershed Forum has been an excellent educational tool to direct municipalities, volunteers, water authorities, students, and others in key conservation concepts. More importantly crucial nonpoint source pollution prevention ideas have been a part of every watershed forum to date. The Forum allows each District to share these NPS issues with a large scale audience which in turn can carry it to their members/residents. The Lancaster & Lebanon County Conservation District's Watershed Specialists provide an educational forum and networking opportunity to stimulate awareness and interest for the local watershed associations of both counties. This three-hour watershed forum helps elevate the collective knowledge of the participants on non-point source pollution and fuel continued involvement in watershed conservation. The forum provides an opportunity for participants to network and share ideas, which lead to combining efforts on future endeavors. The target audience develops a larger volunteer basis to pull from because of combined efforts of all groups and the resources shared throughout the watershed forum. This allows them to take action and/or continue to reduce NPS water pollution, improve local water quality and, ultimately, their watersheds. More specifically:

- Watershed and Conservation Organizations will continue to implement and promote BMPs such as stream side buffers, stream restoration projects, storm drain marking, stream clean ups, etc.
- Municipalities will continue to push for the implementation of stream side buffer ordinances, stormwater controls and regulations, and education of NPS pollution education, particularly those who are MS4s.
- All participants become advocates for conservation and our watersheds through their continued education of NPS pollution. They receive a wealth of information at the Watershed Forum in

*"Watershed Specialist Top Project Survey" Response*

*which to promote the reduction of and to implement the reduction of NPS pollution in our watersheds.  
The Lebanon and Lancaster County Conservation District's Watershed Specialists work cooperatively in  
all aspects of organizing and running the Watershed Forum.*

*"Watershed Specialist Top Project Survey" Response*

Lebanon County Project B

Title: Lebanon County Rain Barrel Workshops

Municipality: All

Watershed: Benefits of watersheds of Lebanon County and the Chesapeake Bay.

Completed: 2009, 2008

Cost: Approximately \$15,000

Funding Source(s): WREN, DEP EE Grants

Watershed Specialist: Stephanie Harmon --default

Categories: Nonpoint Source Pollution Education, Stormwater Management, Watershed Protection,

Other: Water conservation/reuse

Narrative:

Participants were educated on the topic of non-point source pollution; they viewed how it affects water quality and quantity and how we as homeowners can help minimize non-point source pollution in and around our own homes. Specifically they learned what the local sources of non-point source pollution are and how a rain barrel can be used as one measure to help reduce non-point source pollution. Through several grants and a total of 3 workshops thus far, 94 rain barrels were purchased and distributed to workshop participants. By providing participants rain barrels as a specific means of non-point source pollution control, the LCCD believes participants will utilize the rain barrels as well as be motivated to implement other means to help prevent non-point source pollution and reduce water consumption around their homes. The LCCD has partnered with North Cornwall Township, Penn State Master Gardeners, and the Lebanon County Planning Department. For each workshop, registration was filled without having to advertise the workshops. There is an overwhelming interest from the public. After the first workshop, LCCD created a mailing list of over 60 people who were interested in attending possible future workshops. More people have asked us to be placed on our mailing list for this workshop than we have been able to accommodate. Once again, with the most recent workshops (March/April 2009), spaces were quickly filled and another waiting list has been created and is quickly growing. The Watershed Specialist organizes and presents each workshop. Specifically, the Watershed Specialist's goals of each workshop are too: •Increase environmental literacy regarding water quality and quantity issues in Lebanon County. •Educate homeowners about non-point source pollution. •Educate homeowners about rain barrels and their uses/benefits. •Provide homeowners an opportunity to incorporate measures to minimize non-point source pollution.

*"Watershed Specialist Top Project Survey" Response*

Lebanon County Project C

Title: Lebanon Valley Agricultural Center-Rain Garden

Municipality: North Cornwall Twp

Watershed: Snitz Creek-Quittapahilla Creek-Swatara Creek

Completed: 2008-2009

Cost: 12270

Funding Source(s): DEP Growing Greener-County Environmental Initiative

Watershed Specialist: Stephanie Harmon --default

Categories: Stormwater Management, Watershed Protection, Nonpoint Source Pollution Education,  
Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Bucks

Respondent: Gretchen Schatschneider/Meghan Rogalus Position: District Manager/Watershed Specialist, Email: Gretchenschats@bucksccd.org,

Current Watershed Specialist: Meghan Rogalus Years on job: 1

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Projects:

A: Pidcock Creek Streambank Restoration Project

B: Aquetong Watershed Association Formation

C: Cooks Run Watershed Restoration Project

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 784512904 Collector: 9226753

User Created: 5/1/2009 5:37:40 PM, User Last Accessed: 5/15/2009 6:10:00 PM,

User Computer I.P. 96.245.140.6

Sent to: gretchenschats@bucksccd.org, Gretchen Schatschneider, Bucks-DM

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Merge Record 36

*"Watershed Specialist Top Project Survey" Response*

Bucks Project A

Title: Pidcock Creek Streambank Restoration Project

Municipality: Upper Makefield Twp

Watershed: Pidcock Creek/Lower Delaware River (South)

Completed: 2007

Cost: Total Cost \$34,000/Total Grant Funding \$20,639

Funding Source(s): Growing Greener Grant

Watershed Specialist: Gretchen Schatschneider

Categories: Watershed Protection, Streams & Lakes, Erosion & Sedimentation, Other: Streambank Restoration

Narrative:

In 2006, the Bucks County Conservation District sponsored a Growing Greener Grant on behalf of the Pidcock Creek Watershed Association for \$20,639 to complete a streambank restoration project in Upper Makefield Twp. The project design was completed using PACD TAG funds, and the construction phase of the project was completed in August of 2007 by Taylor Geo Services, Inc. The goal of the Pidcock Creek Project was to restore 800 ft of streambank along the Curls Run, a major tributary to the Pidcock Creek. The site was identified in the Pidcock Creek Watershed Assessment as a priority for restoration. Issues included vertical banks that were eroding on the outside turn, a septic field dangerously close to leaching into the stream, and flooding occurring at the bridge on Street Road. This restoration project had an estimated expense of \$35,000. The project was funded by Growing Greener for \$20,639. The partial funding required altering the goals of this project. The BCCD remained focused on reducing the erosion of vertical banks, and protecting the stream from exposure to the septic field. Using the Pennsylvania Association of Conservation District's Technical Assistance Grant, the site was surveyed and an engineered design was created. This design included armoring the portion of the streambank exposed to the septic field with stone, installing three root wad structures, a j-hook deflector and two log vanes to redirect water away and minimize scour of the banks. Originally, the project was to be completed using volunteer labor from the Pidcock Creek Watershed Association. A representative of the consulting firm TRC, Omni Environmental Corporation was hired to conduct construction oversight for the project. Unfortunately, the labor required proved to be too onerous and detail-oriented for volunteers to complete. The Bucks County Conservation District decided to complete this project using skilled labor. Conflicts occurred with the landowner regarding the type of stone to be used. A compromise was reached through a cost share agreement. The landowner agreed to pay the added expense of larger

*"Watershed Specialist Top Project Survey" Response*

stone. An initial request for bids was unsuccessful, resulting in estimates of up to \$78,000. The project was scaled back, and the third root wad was discarded, along with the two log vanes. A second round of bids resulted in a low bid of \$34,000 from Taylor Geo Services, Inc. This bid was accepted after the Bucks County Conservation District approved spending up to \$4,000.00 of their annual budget to close the gap between the available funds from the grant, plus the landowner's additional funds for the desired stone, and the proposed bid. Construction on the project began August 20, 2007. During that week, the area received heavy rains creating difficulties for the construction company. The Bucks County Conservation District contributed funds for extra pumps to keep the project area free from streamflow. The construction project was completed on schedule, Friday August 24, 2007. The contract with TRC Omni Environmental Corp. was underutilized, and proved redundant. Luckily, Taylor Geo Services, Inc. and their subcontractors, Water's Edge, completed the project under budget. H & K Group provided and delivered the root wads free of charge. The only extraneous costs were those to the landowner for the requested type of stone. The Pidcock Creek Watershed Association received funding from TreeVitalize to complete a riparian buffer planting on site to complete this project. The planting was completed on October 21, 2007. The Bucks County Conservation District Watershed Specialist was responsible for writing the Growing Greener Grant request, assisting the PACD Engineer during site survey and design completion, completing bid documents, holding bid meetings, hiring and contracting with all subs, providing construction oversight, assisting with construction, administering the grant, publicizing project outcome, organizing riparian tree planting, purchasing plant material and planting event oversight. Gretchen Schatschneider, Watershed Specialist for the Bucks County Conservation District, presented this project to visitors of the Bowman's Hill Wildflower Preserve during their winter lecture series, January 20, 2008. This event was attended by over 80 people. Articles regarding this project have been published in both the South East Regional Conservation and You newsletter, which has a circulation of approximately 1,000 readers, and the Pidcock Creek Watershed Association newsletter. The Bucks County Conservation District contracted a performance bid with Taylor Geo Services, Inc. for the extent of one year after the completion of the Pidcock Creek Streambank Stabilization Project. At that point the landowner assumes all responsibility for maintaining this project through the landowner agreement.

*"Watershed Specialist Top Project Survey" Response*

Bucks Project B

Title: Aquetong Watershed Association Formation

Municipality: Solebury Twp / New Hope Borough

Watershed: Aquetong / Delaware River South

Completed: Ongoing

Cost: 6408

Funding Source(s): Growing Greener I

Watershed Specialist: Meghan Rogalus

Categories: Watershed Group Support / Capacity Building, Watershed Planning, Watershed Protection, Other:

Narrative:

The goal of this project is to form a sustainable Watershed Association capable of planning and implementing future projects which will protect and enhance the water quality of the Aquetong Creek. The AWA has created strong partnerships with several organizations, including but not limited to the several other watershed associations in the surrounding area, the municipalities, the Bucks County Audubon Society, Bucks County Chapter of Trout Unlimited, the Jonathan Krist Foundation, and the New Hope Historical Society. Since being awarded their Growing Greener grant in 2007, the AWA has held several successful educational events including a roundtable on riparian buffers, a stream walk and a workshop on land management practices to improve water quality. They have helped coordinate and provided volunteer labor for five riparian buffer plantings. The AWA has procured funding to complete a Watershed Assessment and Restoration Plan. The Association has also obtained funding to implement a website for public education, and holds a Coldwater Heritage Grant through the Bucks County Chapter of Trout Unlimited to be used for future restoration projects. The Watershed Specialist, Meghan Rogalus, has been instrumental in helping to organize the Board of Directors of the AWA. She has organized and attended monthly meetings, provided education regarding funding sources and potential projects. She has assisted with obtaining funding for the riparian plantings through the TreeVitalize program as well as planned the planting layout, ordered plant materials and arranged for equipment. She has also served as the Administrator of the AWA's Growing Greener Grants for the association formation and their first watershed protection grant.

*"Watershed Specialist Top Project Survey" Response*

Bucks Project C

*Title: Cooks Run Watershed Restoration Project*

*Municipality: Doylestown Borough/Doylestown Township/New Britain Borough*

*Watershed: Cooks Run/Neshaminy Creek Watershed*

*Completed: Ongoing*

*Cost: 34300*

*Funding Source(s): Growing Greener II (\$19,300) Coastal Zone Management Program (\$15,000)*

*Watershed Specialist: Gretchen Schatschneider / Meghan Rogalus*

*Categories: Watershed Protection, Stormwater Management, Erosion & Sedimentation, Other: Water Quality Monitoring*

*Narrative:*

*12:00:00 AM*

*"Watershed Specialist Top Project Survey" Response*

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County: Allegheny

Respondent: Amy Myers Position: Watershed Specialist, Email: abmyers@covad.net,

Current Watershed Specialist: Amy Myers Years on job: 1

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Projects:

A: Natural Stream Design Workshop

B: Boyce Park Passive Treatment System

C: Pine Creek Conservation Plan

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 784487827 Collector: 9226753

User Created: 5/1/2009 5:04:47 PM, User Last Accessed: 5/18/2009 12:58:12 PM,

User Computer I.P. 67.100.46.234

Sent to: abmyers@covad.net, Amy Myers, Allegheny-WS

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Merge Record 37

*"Watershed Specialist Top Project Survey" Response*

Allegheny Project A

Title: Natural Stream Design Workshop

Municipality: Indiana Township

Watershed: Deer Creek Watershed

Completed: 2008

Cost: 16570

Funding Source(s): ACCD Clean Water Fund, PA Fish & Boat Commission, Hampton Township, Indiana Township, PA DEP, North Area Environmental Council

Watershed Specialist: Rich Kowalski

Categories: Nonpoint Source Pollution Education, Erosion & Sedimentation, , Other: Habitat Improvement

Narrative:

The project consisted of constructing fish habitat structures and thereby teaching municipal public works directors the benefits of constructing fish habitat structures on streams/areas under their jurisdiction. ACCD hosted a workshop to teach municipal employees about the structures, their benefits, requirements for design and permitting, construction and maintenance of the structures. The majority of the workshop was building structures and showing public works employees how to construct the structures. Indiana Township provided the equipment and labor to install the structures for the workshop on property owned by the municipalities. One of the project goals was developing the facility in municipalities to search out and implement good designs. This link to the Pa Fish & Boat Commission is the resource that we worked from: [http://www.fish.state.pa.us/water/streams/habitat\\_improve\\_trout.pdf](http://www.fish.state.pa.us/water/streams/habitat_improve_trout.pdf) Initial reconnaissance was conducted in May, 2008. The design and permitting occurred during the summer and the workshop was held on September 15 – 18, 2008. The schedule for the workshop was a half day on theory, a half day on taking stream measurements and two days of construction. The watershed specialist acted as coordinator for the workshop as well as host. In addition, the watershed specialist worked with PaDEP, Pa Fish and Boat Commission and local municipalities to educate and promote similar projects on stream sections publically owned. These structures not only provide benefits for habitat improvement but also streambank stabilization and recreational opportunities.

*"Watershed Specialist Top Project Survey" Response*

Allegheny Project B

Title: Boyce Park Passive Treatment System

Municipality: Plum Borough

Watershed: Pierson Run Watershed

Completed: 2008

Cost: 365020.9

Funding Source(s): PA DEP Growing Greener Grants, PA Foundation for Pennsylvania Watersheds

Watershed Specialist: Rick Kowalski

Categories: Abandoned Mine Reclamation, , , Other: Reduce non-point source pollution

Narrative:

The Boyce Park Passive Treatment system was completed in three phases consisting of design, construction and operation and maintenance. The watershed specialist was active in all phases providing technical assistance, field measurements and grant administration. Phase 1 consisted of collecting preliminary water quality and flow data to be incorporated in the passive treatment system design. The design for the system included the treatment of three abandoned mine drainage discharges in Boyce Park. The system included an open limestone pond, 3 vertical flow wetlands and 2 settling ponds and a constructed wetland to discharge the treated water. Phase 2 consisted of permitting and construction of the Phase 1 design plan. Phase 3 consisted of the development of an operation, maintenance and repair plan which is currently being implemented. Flushing and monitoring of the system is currently being done by Skelly & Loy, Inc. while training of members of the Turtle Creek Watershed Association is being done.

*"Watershed Specialist Top Project Survey" Response*

Allegheny Project C

Title: Pine Creek Conservation Plan

Municipality: Marshall, Pine, Richland, Bradford Woods, Franklin Park, McCandless, Hampton, Indiana, O'Hara, Shaler, Ross, Franklin Park

Watershed: Pine Creek

Completed: 2012

Cost:

Funding Source(s): EPA 319 Program

Watershed Specialist: Amy Myers --default

Categories: Watershed Planning, Watershed Protection, , Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Montgomery

Respondent: Susan Harris Position: Watershed Specialist, Email:  
sharris@montgomeryconservation.org,

Current Watershed Specialist: Susan Harris Years on job: 8

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Projects:

A: Mary Mother of the Redeemer Stormwater retrofit

B: Plymouth Creek regional stormwater basin retrofit phase I

C: Stony Creek Streambank restoration project

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 784462355 Collector: 9226753

User Created: 5/1/2009 4:34:55 PM, User Last Accessed: 5/1/2009 6:00:02 PM,

User Computer I.P. 70.110.170.178

Sent to: sharris@montgomeryconservation.org, Susan Harris, Montgomery-WS

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Merge Record 38

*"Watershed Specialist Top Project Survey" Response*

Montgomery Project A

Title: Mary Mother of the Redeemer Stormwater retrofit

Municipality: Montgomery

Watershed: Neshaminy

Completed: 2008

Cost: 84750

Funding Source(s): Growing Greener, TreeVitalize, Rohm & Haas

Watershed Specialist: Susan Harris --default

Categories: Stormwater Management, Watershed Protection, Watershed Group Support / Capacity Building, Other:

Narrative:

The project consisted of restoring the riparian area along an UNT to the Little Neshaminy Creek, enhancing the existing wetland, and retrofitting a stormwater basin. In the basin, we removed the concrete low flow channel and installed a berm to extend the flow path. The outlet structure was modified by adding a steel plate over the existing orifice, and installing a new one at a higher elevation. The environmental outcomes include extended detention, and infiltration in the basin. At the riparian area and wetland we created habitat, and stabilized and shaded the creek. My role as watershed specialist included grant writing and administration, bidding and awarding contracts for design and construction, and technical support to the school and church.

*"Watershed Specialist Top Project Survey" Response*

Montgomery Project B

Title: Plymouth Creek regional stormwater basin retrofit phase I

Municipality: Plymouth

Watershed: Plymouth/Schuylkill

Completed: 2007

Cost: 60000

Funding Source(s): TreeVitalize & private contributions

Watershed Specialist: Susan Harris --default

Categories: Stormwater Management, Watershed Protection, , Other:

Narrative:

Phase I of this project consisted of planting the basin with 400 trees and shrubs. My role in this project include grant writing and administration, ordering materials, and organizing volunteers. Phase II of this project was recently funded, and will include installation of three sediment forebays, and conversion of turfgrass areas to meadow.

*"Watershed Specialist Top Project Survey" Response*

Montgomery Project C

Title: Stony Creek Streambank restoration project

Municipality: East Norriton

Watershed: Stony Creek

Completed: 2005

Cost: 12000

Funding Source(s): Schuylkill Watershed Initiative grant

Watershed Specialist: Susan Harris --default

Categories: Watershed Protection, Streams & Lakes, , Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: CAMBRIA

Respondent: ROBB PIPER Position: MANAGER, Email: PIPER@CO.CAMBRIA.PA.US,

Current Watershed Specialist: BRYAN RABISH & JACQUELINE RITKO Years on job: 9 & 14 RESPECTIVELY

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Projects:

A: CLEARFIELD CREEK WATERSHED ASSESSMENT

B: CHEST CREEK WATERSHED ASSESSMENT & REMEDIATION PLAN

C: Beaverdam Reservoir & Watershed Restoration Project

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 784458887 Collector: 9226753

User Created: 5/1/2009 4:30:54 PM, User Last Accessed: 5/5/2009 4:09:06 PM,

User Computer I.P. 65.112.68.2

Sent to: piper@co.cambria.pa.us, Robb Piper, Cambria-DM

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Merge Record 39

*"Watershed Specialist Top Project Survey" Response*

CAMBRIA Project A

Title: CLEARFIELD CREEK WATERSHED ASSESSMENT

Municipality: VARIOUS in CLEARFIELD & CAMBRIA COUNTIES

Watershed: CLEARFIELD CREEK

Completed: 2003

Cost: 230200

Funding Source(s): GROWING GREENER

Watershed Specialist: BRYAN RABISH

Categories: Watershed Planning, Watershed Group Support / Capacity Building, Watershed Protection, Other:

Narrative:

Comprehensive assessment of the Clearfield Creek Watershed over a two years period (2001-2003) in conjunction with the newly formed Clearfield Creek Watershed Association (CCWA-2000). Bryan managed all phases of the project coordinating between the CCWA, consultants, the Cambria County GIS Center, the DEP and their project advisor. He managed most of the budget including reimbursements and assisted with water sampling and data analysis.

*"Watershed Specialist Top Project Survey" Response*

CAMBRIA Project B

Title: CHEST CREEK WATERSHED ASSESSMENT & REMEDIATION PLAN

Municipality: VARIOUS IN CAMBRIA & CLEARFIELD COUNTIES

Watershed: CHEST CREEK

Completed: 2009

Cost: 70000

Funding Source(s): GROWING GREENER

Watershed Specialist: BRYAN RABISH

Categories: Watershed Planning, Watershed Protection, Watershed Group Support / Capacity Building, Other:

Narrative:

This was a 3.5 year project that Bryan managed as part of capacity building for the newly formed Chest Creek Alliance (2002) watershed group. He did comprehensive management of the project from water sampling to report development. He was also responsible for the project budget and reimbursements.

*"Watershed Specialist Top Project Survey" Response*

CAMBRIA Project C

Title: Beaverdam Reservoir & Watershed Restoration Project

Municipality: Summerhill Township

Watershed: South Fork Little Conemaugh River

Completed: 2008

Cost: 52280

Funding Source(s): Growing Greener

Watershed Specialist: Jacqueline Ritko

Categories: Streams & Lakes, Watershed Protection, Watershed Group Support / Capacity Building, Other:

Narrative:

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Bradford

Respondent: Rob Parker Position: Watershed Specialist, Email: robert.parker@pa.nacdnet.net,

Current Watershed Specialist: Rob Parker Years on job: 4

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Projects:

A:

B:

C:

Supplemental Info:

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Survey Monkey Internal Info:

User ID: 784452465 Collector: 9226753

User Created: 5/1/2009 4:21:48 PM, User Last Accessed: 5/1/2009 4:23:27 PM,

User Computer I.P. 199.144.142.212

Sent to: robert.parker@pa.nacdnet.net, Rob Parker, Bradford-WS

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Merge Record 40

*"Watershed Specialist Top Project Survey" Response*

*Bradford Project A*

*Title:*

*Municipality:*

*Watershed:*

*Completed:*

*Cost:*

*Funding Source(s):*

*Watershed Specialist: Rob Parker --default*

*Categories: , , , Other:*

*Narrative:*

*"Watershed Specialist Top Project Survey" Response*

Bradford Project B

Title:

Municipality:

Watershed:

Completed:

Cost:

Funding Source(s):

Watershed Specialist: Rob Parker --default

Categories: , , , Other:

Narrative:

*"Watershed Specialist Top Project Survey" Response*

Bradford Project C

Title:

Municipality:

Watershed:

Completed:

Cost:

Funding Source(s):

Watershed Specialist: Rob Parker --default

Categories: , , , Other:

Narrative:

*"Watershed Specialist Top Project Survey" Response*

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County: Indiana

Respondent: Anne Daymut Position: Watershed Specialist, Email: a.daymut@iccdpa.org,

Current Watershed Specialist: Anne Daymut Years on job: 2

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Projects:

A: Bear Run Watershed Renaissance

B: Lucerne 3A Treatment System/Waterworks Conservation Area

C: Watershed Group Capacity Building

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 784415899 Collector: 9226753

User Created: 5/1/2009 3:30:53 PM, User Last Accessed: 5/15/2009 12:36:33 PM,

User Computer I.P. 24.3.205.239

Sent to: a.daymut@iccdpa.org, Anne Daymut, Indiana-WS

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Merge Record 41

*"Watershed Specialist Top Project Survey" Response*

Indiana Project A

Title: Bear Run Watershed Renaissance

Municipality: Banks Township

Watershed: Bear Run

Completed: Ongoing

Cost: \$667,000 spent and contracted, \$780,000 pledged

Funding Source(s): DEP Growing Greener, PACD Technical Assistance Grants, Pennsylvania Game Commission, and OSM Clean Streams

Watershed Specialist: Tom Clark and Anne Daymut

Categories: Watershed Planning, Abandoned Mine Reclamation, Grant Writing, Other: Brought funding to district and will bring tourism and recreation to County

Narrative:

Tom Clark completed the Bear Run Restoration Plan in 2006, which made it possible for him to apply for Growing Greener funds for the Bear Run Discharge 7 and Discharge 17 AMD treatment systems. Both of these systems were completed in early 2009 with Anne Daymut as the project coordinator. The Plan also made it possible for Clark to apply for the Bear Run Watershed Renaissance in his last months as Watershed Specialist. Awarded to the Indiana County Conservation District in partnership with the Susquehanna River Basin Commission (SRBC), Phase I of the Bear Run Renaissance is reclaiming 30 acres of abandoned mine and refuse, rehabilitating 1000 feet of stream, and building a treatment system for a major source of AMD to the watershed. Anne Daymut serves as the project coordinator for Phase I, which will be completed in 2010. Future phases of the project will be funded through Growing Greener as pledged by DEP. When completed, the Bear Run Renaissance is expected to return the watershed to a high quality, cold water, and native brook trout fishery. Partnerships for this project include the SRBC, Pennsylvania Game Commission, Pennsylvania Association of Conservation Districts, Evergreen Conservancy, Cal Lind (landowner), Ken Sink Trout Unlimited, Pennsylvania Senior Environmental Corps, Banks Township Supervisors, Mine Tech, Ridge Energy, Synagro, and many others.

*"Watershed Specialist Top Project Survey" Response*

Indiana Project B

Title: Lucerne 3A Treatment System/Waterworks Conservation Area

Municipality: White Township

Watershed: Two Lick Creek

Completed: Ongoing

Cost:

Funding Source(s): DEP Growing Greener, Pennsylvania Department of Conservation of Natural Resources (DCNR)

Watershed Specialist: Tom Clark and Anne Daymut

Categories: Abandoned Mine Reclamation, Nonpoint Source Pollution Education, Wetlands, Other: Brought grant funding, and recreational opportunities into county

Narrative:

In partnership with DCNR, Ken Sink Trout Unlimited, The Indiana County Commissioners, Indiana County Parks and Recreation, Indiana University of Pennsylvania, the Indiana County Chapter of the Pennsylvania Senior Environmental Corps, and the Jimmy Stewart Airport, Tom Clark was awarded a grant to build a treatment system for the Lucerne 3A discharge. Anne Daymut served as the project coordinator and continues to monitor the system which consists of a hydrated lime dosing silo and settling ponds. This unique system serves as an educational exhibit as it is situated on county-owned property that will soon be developed into a county park along one of the county's most loved fisheries. The project will eliminate the only major source of pollution to this section of stream and serves as wetlands mitigation for the County's airport improvement project.

*"Watershed Specialist Top Project Survey" Response*

Indiana Project C

*Title: Watershed Group Capacity Building*

*Municipality: Nearly every Township in Indiana County*

*Watershed: All those located in Indiana County*

*Completed: Ongoing*

*Cost:*

*Funding Source(s): DEP Growing Greener, Indiana County Conservation District*

*Watershed Specialist: Tom Clark and Anne Daymut*

*Categories: Watershed Group Support / Capacity Building, Watershed Protection, Watershed Planning,  
Other:*

*Narrative:*

12:00:00 AM

*"Watershed Specialist Top Project Survey" Response*

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County: Cumberland

Respondent: Adam McClain Position: Watershed Specialist, Email: amclain@ccpa.net,

Current Watershed Specialist: Adam McClain Years on job: 1.5

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Projects:

A: Burd Run Stream Channel, Riparian Zone and Wetlands Restoration

B: Rain Barrel Project

C: Agricultural Best Management Practices in the Conodoguinet Watershed

Supplemental Info:

12:00:00 AM

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Survey Monkey Internal Info:

User ID: 784408377 Collector: 9226753

User Created: 5/1/2009 3:30:38 PM, User Last Accessed: 5/8/2009 12:24:42 PM,

User Computer I.P. 74.92.91.102

Sent to: amclain@ccpa.net, Adam McClain, Cumberland-WS

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Merge Record 42

*"Watershed Specialist Top Project Survey" Response*

Cumberland Project A

Title: Burd Run Stream Channel, Riparian Zone and Wetlands Restoration

Municipality: Shippensburg

Watershed: Burd Run

Completed: 2003

Cost: 129000

Funding Source(s): Growing Greener

Watershed Specialist: Vince McCollum

Categories: Streams & Lakes, Wetlands, Watershed Protection, Other:

Narrative:

Project Partners: Shippensburg University, Shippensburg Township, Natural Resources Conservation Service, Condoquinet Watershed Association, Pennsylvania - Audubon Society, Game Commission, Fish Commission, Bureau of Forestry, Franklin Co Conservation District, U.S Army Corps of Engineers, Susquehanna River Basin Comm, Alliance for the Chesapeake Bay, Trout Unlimited, Boy Scouts of America, Shippensburg Public Schools, Jeff Coy - State Rep., and Shippensburg Borough. Burd Run Stream Channel, Riparian Zone and Wetlands Restoration project restored a the stream channel, riparian corridor, and floodplain wetlands on a 21 acre property. The previous owner of the property severely degraded the stream with sediment and nutrients through artificial channel straightening and removal of riparian trees and shubs. The project restored the property to the historic meandering channel with stabilized banks, riparian trees and shubs, and a large wetland. The stream has made a miraculous recovery with the reduction of sediment and nutrients. The stream is currently abundant with many types of flora and fauna that would not have been present. Since the property is now a township park, many people are able to see the great environmental progress that state funding has acomplished. The watershed specialist was the administrator of the grant and coordinated the project with assistance from a Shippensburg University professor.

*"Watershed Specialist Top Project Survey" Response*

Cumberland Project B

Title: Rain Barrel Project

Municipality: Entire County

Watershed: Yellow Breeches and Conodoquinet

Completed: Current

Cost: 17500

Funding Source(s): PACD Educational Mini Grant and District Funding

Watershed Specialist: Vince McCollum and Adam McClain

Categories: Nonpoint Source Pollution Education, Stormwater Management, Watershed Protection, Other:

Narrative:

The Watershed Specialist has been administering the Cumberland County rain barrel program for over 7 years. The program can be accredited for installing over 525 rain barrel in Cumberland County. Through evaluations we have found that the average rain barrel collects and uses over 400 gallons a year. (525 rain barrels x 400 gallons of water= 210,000 gallons of water). The project is conserving 210,00 gallons of ground water a year not including energy and treatment costs. This water can be used during drought conditions instead of groundwater. It is also reducing 210,000 gallons of stormwater runoff during rain events and providing a reduction in erosion. This program also offers a hands on educational opportunity for high school students to construct rain barrels and learn about Nonpoint Source Pollution and the practices that they can implement to reduce their impact to the Chesapeake Bay. Rain Barrel recipients also receive a education brochure that challenges people to reduce potential Nonpoint Source Pollution on their property and in their community. Partners in this project have been PACD, PA DEP, Cumberland Valley High School, and Cedar Cliff High School.

*"Watershed Specialist Top Project Survey" Response*

Cumberland Project C

*Title: Agricultural Best Management Practices in the Conodoquinet Watershed*

*Municipality: South Hampton, Shippensburg Township, Shippensburg Borough, Newburg, Hopewell, Upper Mifflin, Lower Mifflin, North Newton, Newville, West Pennsboro, Upper Franklin, Lower Franklin, Carlisle, North Middleton, Middlesex, Silver Spring, Hampden, East Pennsbo*

*Watershed: Conodoquinet*

*Completed: 2004*

*Cost: 615949*

*Funding Source(s): Section 319 and District Funds*

*Watershed Specialist: Vince McCollum*

*Categories: Agricultural Conservation, Nutrient Management, Watershed Protection, Other:*

*Narrative:*

*12:00:00 AM*