

# Western Maryland Resource Conservation and Development

Fiscal Year 2011

Annual Plan of Work and Budget

July 1, 2010 - June 30, 2011

## Element: Land Conservation

**Goal 1:** Endeavor to improve the lifestyle of all individuals by collaborating and working together to address land conservation concerns (application of conservation measures that protect and improve soil and water conditions) in the five-county Western Maryland RC&D area, and adjacent counties and states

**Objective 1a:** Assist the local communities in conservation practices that protect, improve, and remediate acidic waterways caused by past effects of coal mining

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Program/Project Manager	Mark Goldbach	Mar-10			<b>\$45,000</b>
1a1	Develop , fund, and manage proposals and contracts for MDNR-PPRP for Garrett and Allegany Counties				
1a2	Program Manager will work with Project Leader, Coordinator, and Funding agency to identify management needs in each county				
1a3	Assist MDE-BOM and watershed groups with Acid Mine Drainage (AMD) and other clean-water projects				
1a4	Develop local internships for both lab and field experience				
1a5	Explore and develop projects that use promising new energy concepts including methane and solar				
1a6	Maximize use of local workforce in order to provide WMRC&D with needed services				
1a7	Investigate changes in MD's agricultural practices that would increase carbon sequestration				
1a8	Investigate land application of CCBs including newly produced gypsum				

**Partners:** Maryland DNR-Power Plant Research Program, Maryland Department of Environment-Bureau Of Mines, Office of Surface Mining, Frostburg State University, Soil Conservation Districts, Farm Service Agency, Rural Development, US Forest Service, Pheasants Forever, Trout Unlimited, Wild Turkey Federation, Ducks Unlimited, Nature Conservancy, Community, Other Agencies (State and Federal), both For-Profit & Non-Profit organizations

**Objective 1b: Provide construction services to build treatment systems (SAPS) for acid mine drainage to improve water quality in the Aaron Run Watershed; therefore, allowing naturally occurring habitat for native Brook trout**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Owens North Reclamation	Joe Mills/BOM	Dec-09	Oct. 2010		<b>\$27,500.00</b>
1b1	Eliminate public safety hazard to protect local residents from dangers caused by past mining activities.				
1b2	Build a passive acid mine drainage system to improve water quality in the Aaron run Watershed				
1b3	Supply equipment, labor and materials to complete the work				

**Partners:** Maryland Department of Environment-Bureau Of Mines, Kiddy's Contracting LLC

**Objective 1c: Provide design services to create treatment systems (limestone doser) which treats acid mine drainage in the Aaron Run Watershed. Improved water quality in streams capable of supporting native Brook trout.**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Aaron Run Stream Restoration	Mark Goldbach/Callie McMunigal	Aug-07	Dec-10		<b>\$150,000.00</b>
1c1	Facilitate cooperation between partners in the restoration of fish and wildlife habitat in Maryland				
1c2	Interchange of services, personnel, equipment, & facilities to conduct habitat restoration activities				
1c3	and management actions to benefit plant & animal species and their habitats				
1c4	Restore riparian (1 acre) and upland forest habitat,10 acres of upland forest, monitor, and develop new and innovative restoration techniques				
1c5	Restore wetlands and forest, construction of in-stream habitat structures, and stream bank stabilization				

**Partners:** US Fish and Wildlife Service, Maryland Department of Environment-Bureau Of Mines, Office of Surface Mining, Trout Unlimited, Shawnee Council of Girl Scouts, Boy Scouts of America

**Objective 1d:** Provide Maryland Department of Natural Resources Forest Service the services of a qualified forester or natural resources technician to deliver Firewise outreach, reservoir watershed fire response plans, and community wildfire protection plans.

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		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Forestry Firewise Support	Gary Aronhalt	Apr-10	Jun-11		<b>\$56,000.00</b>

- 1d1 Develop Community Wildfire Protection Plan and Provide Outreach Education
- 1d2 Assist the local communities in fire management practices that protect and improve at-risk communities

**Partners:** MD Department Natural Resources-Forest Service, private and public lands, local communities and school systems

**Objective 1e:** Provide construction support services for the fabrication and installation of a limestone doser to treat acid mine drainage emanating from an abandoned deep coal mine bore hole located in West Virginia that flows through the Maryland town of Crellin

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Crellin Limestone Acid Mine Drainage	Mark Goldbach	Dec-02	Jul-10		<b>\$98,575.00</b>

- 1e1 Faciliate cooperation between partners to provide water treatment for Acid Mine Drainage

**Partners:** Maryland Department of Environment- Bureau Of Mines, Office of Surface Mining,

**Element: Land Management**

**Goal 2:** Cultivate a regional approach in resource protection by supporting the development and implementation of projects to address land management concerns in the five-county Western Maryland RC&D area, and adjacent counties and states

**Objective 2a:** Provide field and laboratory research support to the Maryland Department of Natural Resources Power Plant Research Program in developing beneficial uses for all of the by-products of producing electricity in Maryland

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Power Plant Research Program Support	Mark Goldbach/Paul Petzrick	Mar-10	Sep-11		<b>\$298,595.96</b>
2a1	Background research to identify prospective opportunities for beneficial applications of Maryland Power Plant by-products and other power support activities				
2a2	Development of concept descriptions for environmentally beneficial applications of Maryland Power Plant by-products and other power plant related concepts as approved by the department representative				
2a3	Preparation of demonstration project descriptions				
2a4	Development of funding mechanisms for proposed demonstration projects				
2a5	Incidental publications				
2a6	Provide laboratory, field, and other centralized support to PPRP and PPRP contractors and partners				
2a7	Water sampling/project monitoring program				
2a8	Provide project management support				
2a9	Procurement and management of specialized services				

**Partners:** Maryland DNR-Power Plant Research Program, Maryland Department of Environment-Bureau Of Mines, Office of Surface Mining, Frostburn State University, Garrett College, Appalachian Labs, Fredericktowne Labs

**Objective 2b: Provide design service to develop a schoolyard habitat and education program in Frederick County, Maryland at the Windsor Knolls Middle School**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Windsor Knolls Middle School Habitat	Karen Kelly Mullin/Richard Starr	Apr-06	Apr-11		<b>\$19,500.00</b>
2b1	Development of a field guide and educational materials				
2b2	Prototype- including accessing and formatting the plant data for Windsor Knolls and urbanna projects				

**Partners:** United States Fish & Wildlife Service, Willow Oak Group

**Objective 2c: Provide technical level assistance in Central Maryland to meet the goals and objectives of Maryland's DNR's Geological Survey's regional hard rock ground-water assessment**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Hydrogeologist	Phung Pham	Apr-11	Mar-11		<b>\$112,008.00</b>
2c1	Conduct water-resources assessment in mostly Frederick County and adjacent or nearby areas				
2c2	Conduct inventories of ground-water wells, using maps and Global Positioning System equipment				
2c3	Compilation of related information from State, County, Municipal, and Federal agency sources				
2c4	Assisting in preparation of Geographic Information System map layers				

**Partners:** Maryland Geologist Survey

**Objective 2d:** Installation of practices to best address and improve soil, water, and land quality in and around select abandoned coal mines

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Winding Ridge Acid Mine Drainage	Gary Reeves				
2d1	Implement borehole sealing and grouting				
2d2	Remediate soil by surface reclamation				

**Partners:** Maryland Department of Natural Resources-Power Plant Research Program

**Element: Water Management**

**Goal 3:** Improve the quality and quantity of water resources through implementation practices, research, outreach, and education

**Objective 3a:** Sponsor research to determine water quality and quantity to improve aquatic habitat

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Benthic Study	Niles Primrose	May-10	Oct-10		<b>\$5,340.00</b>
3a1	Partner with Garrett College and Appalachian Labs to develop AMD stream research				
3a2	Monitor and collect benthic organisms to assess water quality				

**Partners:** Maryland DNR-Power Plant Research Program, Garrett College, Appalachian Labs

**Objective 3b: Improve fish passage by excavating and grading a one mile dam bypass and removing a concrete dam within Falls Creek, in Baltimore County**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
White Hall Dam Removal	Environmental Services Inc.	Jul-08	Aug-10		<b>\$176,802</b>
3b1	Construction of a fish passage and improvement of stream habitat				
3b2	Removal of concrete dam barrier to allow passage of native wild brown trout				
3b3	Site preparation, implementation of adequate erosion and sediment controls, dam excavation and grading				

**Partners:** NRCS (WHIP Program), MD-Department Natural Resources, United States Fish & Wildlife Service, Fish America, Trout Unlimited, BCWA Frederick and Seibert Associates, Inc.

**Objective 3c: Beaver Creek Stream Restoration (533-linear ft (0.4 acre) on private property of three land owners in Washington Co., Robert G. and Elizabeth S. Hurley, Gregory S. and Laura E. Zimmerman, and Michael D. and Cindy A. Maguire**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Beaver Creek Fish Habitat Restoration	Beaver Creek Watershed Association	Jul-10	Dec-10		<b>\$106,705.00</b>
3c1	Re-channeling stream by installing 4 rock cross-vanes and 3 rock/log "J" hooks				
3c2	Stabilize stream banks using bioengineering techniques				
3c3	Plant riparian buffer using native vegetation				

**Partners:** NRCS (WHIP Program), Fish America, Trout Unlimited, Chesapeake Bay Trust, National Fish & Wildlife Foundation, Beaver Creek Watershed Association-Frederick, Seibert Associates, Inc., Antietam Fly Anglers, local high school students

**Objective 3d: Provide technical level assistance to meet the goals and objectives of Maryland's DNR's Maryland Biological Stream Survey**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Biological stream survey	Kenny Mack & William Harbold	May-10	Apr-12		<b>\$196,110.00</b>
3d1	Contract 2 Biologists to conduct MDNR Maryland Biological Stream Survey				
3d2	Assess current status of water quality, habitat quality, and biological communities in Maryland's streams				
3d3	Identify areas impacted by acid deposition, non-point source pollution, and land use changes adversely affecting water quality and biological community assemblages				

**Partners:** Maryland Department of Natural Resources

**Objective 3e: Provide professional forestry advice and assistance service on public and private lands to meet the goals and objectives of the Monocacy Special Rivers Project in Western Maryland**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Special Rivers Forester	Aaron Cook	Nov-09	Dec-10		<b>\$56,500.00</b>
3e1	Focuses on three main objectives: 1) Watershed Planning and Restoration, 2) Ecological Demonstration and Monitoring, and 3) Information and Education				
3e2	Preparation of Forest Service Stewardship Plans: planting, maintenance, protection and monitoring of streamside forest buffers, establishment of key corridors and greenways in urban and rural areas, and urban forest enhancement				
3e3	Provide education and assistance on matters relating to forests and waterways				

**Partners:** MD Department Natural Resources-Forest Service, private and public lands, local communities and school systems



**Objective 3f:** Provide Braddock Run , George's Creek , and Savage River Watershed Associations a qualified and experienced individual to coordinate efforts of these three watershed associations and their VISTA's

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Regional Watershed Coordinator	Kelly Martin	Jan-08	Dec-11		<b>\$35,000.00</b>
3f1	Establish, coordinate, and maintain solid working relationships with watershed associations				
3f2	Provide basic organizational development support including grant writing assistance, meeting facilitation, strategic planning, and building partnerships at the local and state levels				
3f3	Serve as educational resource to watershed groups				
3f4	Convene and annual meeting of watershed groups to exchange information and ideas				
3f5	Support Highland Action Plan stewardship activities				

**Partners:** Watershed Associations, Local Communities, State Government

**Objective 3g:** Provide statistical modeling services to develop and refine stream erosion models for the US Fish & Wildlife Service

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Stream Bank Erosion Model	Richard Starr	Jul-08	Sep-13		<b>\$27,900.00</b>
3g1	Consultants for streambank erosion prediction curves				
3g2	Reviewing data spreadsheets and conducting preliminary statistical analyses				

**Partners:** Pennsylvania-State University, Baker Engineering

**Objective 3h: Provide technical level agricultural assistance in Allegany County to meet goals and objectives of Maryland's Department of Agriculture to improve water quality in the Potomac Watershed**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Allegany Soil Conservation District	Adam Heavner	Jan-10	Dec-10		<b>\$44,508.00</b>
3h1	Preparation of new conservation plans				
3h2	Revision of on-going conservation plans				
3h3	Assist farmers in application of best management practices				
3h4	Apply 5 Crep acres				

**Partners:** Allegany Soil Conservation District, private landowners

**Objective 3i: Provide services to develop a bio-retention demonstration, facilitate design activities and implement the low impact development (LID) plan**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Deep Creek State Park, Maryland	Richard Starr	Jul-08	Dec-13		<b>\$96,500.00</b>
3i1	Provide wetland habitat to migratory waterfowl and other fish and wildlife				
3i2	Improve surface water quality, protect downstream areas from flooding, and recharge groundwater supplies				
3i3	Educate state park staff as well as park visitors on benefits of LID approaches to storm water management				
3i4	Provide technical assistance, equipment, training, and services to plan and implement restoration activities				

**Partners:** United States Fish and Wildlife Service, Deep Creek State Park

**Objective 3j: Facilitate the assesement and restoration of habitats in the Chesapeake Bay Watershed**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Chesapeake Bay Restoration	Richard Starr	Aug-08	Dec-12		<b>\$133,753.00</b>
3j1	Conduct strategic habitat restoration and conservation planning, monitoring activities, species database management, statistical analyses, implement restoration plans, preparation of reports				
3j2	Develop criteria for site selections; identifying particular sites, determining costs				
3j3	Ageing of brown bullheads, largemouth bass and smallmouth bass				
3j4	Develop and train for natural channel design				

**Partners:** United States Fish and Wildlife Service

**Objective 3k: Provide necessary personnel, materials and services necessary to accomplish hydraulic modeling and design revisions to produce final stream restoration plans**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Watts Branch Stream Restoration	Richard Starr	May-10	Sep-13		<b>\$80,000.00</b>
3j1	Conduct floodplain hydrology and hydraulic modeling				
3j2	Provide outreach education by producing posters, brochures, newspaper and magazine articles, and public meetings				

**Partners:** United States Fish and Wildlife Service

**Objective 3l:** Develop a streambank erosion prediction tool to allow stream assessment and restoration practitioners to accurately estimate the rate and magnitude of stream degradation caused by streambank erosion

<b>Project</b>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Bank Erosion Prediction Tool	Richard Starr	Sep-08	Dec-13		<b>\$21,500.00</b>
3l1	Develop erosion curves to predict bank erosion and assess channel stability				
3l2	Investigate and acquire bank erosion data collected by others				
3l3	Reduce and analyze data, conduct statistical analysis				
3l4	Provide bank erosion prediction to the general public				

**Partners:** United States Fish and Wildlife Service

**Objective 3m:** Implement mutual projects for watershed and stream restoration and several fish passage projects

<b>Project</b>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Fish Passage	Richard Starr	Aug-05	Dec. 2012		<b>\$107,500.00</b>
3m1	Facilitate implementation activities for watershed and stream restoration and fish passage				
3m2	Encourage local landowners to participate in restoration of potential sites				
3m3	Design restoration projects, including analysis of historical aerial photography				
3m4	Assessment and restoration of habitats in the Chesapeake Bay watershed				

**Partners:** United States Fish and Wildlife Service

**Element: Community and Economic Development**

**Goal 4:** Assist communities throughout the five-county area in promoting construction and/or restoration of structures for historical, educational, and quality of life improvement purposes and other market-based approaches to support and encourage clean air, adequate energy supply, clean and abundant water, and obtain needed businesses

**Objective 4a:** Continue research efforts (phase II) to assist partners in developing and testing new tree species for adaptability to utility conditions in urban environments

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Utility Adapted Tree	Niles Primrose	Jun-10	Jun-12		<b>\$75,000.00</b>

- 4a1 Breeding urban-tolerant trees for street and utility line plantings
- 4a2 Research builds on previously funded work: Utility-adapted tree research, production, and out-planting project Phase I

**Partners:** Maryland DNR-Power Plant Research Program, MD Department Natural Resources, USDA-ARS, US National Arboretum, USDA Forest Service

**Objective 4b:** Increase communication and cooperation with other organizations and agencies providing environmental awareness

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
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Communication	Jason Litten				

- 4b1 Informational media (maps, brochure, display, electronic, newsletter, newspaper, radio, television) and/or produced educational sessions to educate and promote CCB use, connecting groups and building partnerships
- 4b2 Assist requests from other partners

**Objective 4c: Improve and update media technology**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
WMRCD Website	Chris Baker				<b>\$2,000.00</b>

- 4c1 Update Western Maryland RC&D Councils Websitemaps
- 4c2 Educate, highlight, and promote the WMRCD Council
- 4c3 Build new partnerships

**Partners:** WMRCD Council

**Objective 4d: Support Agricultural and wood products industry by encouraging development of new markets for biomass energy production utilizing agricultural and forest residues for future sustainability of agriculture**

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Woody Biomass	Paul Shogren				

- 4d1 Coordinate with "Vision 2030", a cooperative effort between Garrett County and Preston County WV. Partner with Rural Development, County Economic Development Chairs, DNR Foresters, SCD, County Commissioners, etc. to develop a plan of action to strengthen ag and wood products
- 4d2 Cultivate a regional approach regarding farmland as a resource protection
- 4d3 Continue to partner with Southern Alleghenies RC&D on the development of a woody biomass production/ utilization facility

**Partners:** Garrett County, Preston County WV, Rural Development, County Economic Development, Department of Natural Resources Forestry, Soil Conservation Districts, County Commissioners

**Objective 4e:** Assist communities to obtain needed infrastructure, equipment, and facilities that promote the health, safety, and well-being of area residents. Seek funding opportunities through partners to upgrade or build needed facilities (i.e., housing, health care, senior living, community recreation centers, and greenhouses for local markets)

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		Acceptance	Completion	Estimated	Actual
Local Greenhouse	Paul Kayzak/Kelly Martin				
4e1	Provide technical assistance, program management, and support to implement and build a local greenhouse				

**Partners:** Frostburg State University, Highlands Action Program, Voice of the Earth

**Objective 4f:** Support living history by providing technical assistance on privately owned property in mountain Maryland

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		Acceptance	Completion	Estimated	Actual
Evergreen Interpretive Trail	Janice Keene				
4f1	Provide technical assistance, program management, and support to develop a plan for an interpretive trail				
4f2	Assist the committee with preparing a grant application and cost estimate				

**Partners:** National Park Service, River Trails Conservation Assistance Program

**Objective 4g:** Provide technical support to assist community in the restoration of Mt. Savage Iron Furnace

<i>Project</i>	<b>Contact/Responsibility</b>	<b>Project Dates:</b>		<b>Project Costs:</b>	
		<b>Acceptance</b>	<b>Completion</b>	<b>Estimated</b>	<b>Actual</b>
Mt. Savage Iron Furnace					<b>\$25,000.00</b>

4g1 Complete a feasibility study and associated cost analysis to determine what is needed to restore the furnace

**Partners:** Allegany Soil Conservation District (SCD)