

# CHESAPEAKE BAY RESTORATION FUND



## PROJECTS CATALOG 2012



# CHESAPEAKE BAY RESTORATION FUND

SUPPORTING ENVIRONMENTAL EDUCATION AND  
RESTORATION PROJECTS FOR  
THE CHESAPEAKE BAY

PROJECTS CATALOG 2012



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## Issue I

The Division of Legislative Services of the Virginia General Assembly publishes this catalogue. The information contained in these pages is current as of May 2012.

Thank you to all of our partners and to all grantees of the Foundation who have provided text and materials for this catalogue.

This catalogue was developed for all agencies, organizations, and individuals interested in environmental education and restoration projects on the bay and its rivers.

General Assembly  
Division of Legislative Services

Compiled and Edited by  
Theresa Schmid  
Research Associate

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## **I. HISTORY**

In 1992, the Virginia General Assembly enacted legislation, co-patroned by Senator Frederick Quayle and Delegate Harvey Morgan, which established the Chesapeake Bay preservation license plate. The design included drawings of bay grass, oysters and crabs, and read "Friends of the Chesapeake." The Department of Motor Vehicles (DMV) began issuing the specialty plates in December 1992.

The legislation also established the Chesapeake Bay Restoration Fund. The Council of the Environment established the Fund within the Department of Accounts, for use or its successor agency, for environmental education and restoration projects related to the Chesapeake Bay and its tributaries. For each plate sold or renewed at a cost of \$25, the Fund receives \$15 and the DMV gets \$10. In an effort to ensure that allocations for Chesapeake Bay projects would be funded in an efficient manner, Senator Quayle sponsored a bill in 1995 that created the Chesapeake Bay Fund Advisory Committee to administer the Fund.

The seven-member advisory committee is comprised of three legislative members and four private citizens. It chose to distribute the Fund money in the form of financial support grants to aid the Bay program. Recipients include state agencies, local governments, schools, or nonprofit groups. The Chesapeake Bay Fund Advisory Committee review grant applications and submits a list of recommended projects to the General Assembly for approval.

Recommended projects fall into two categories: environmental education and restoration projects. Education projects include volunteer and teacher training, special school projects, and the development of education curricula and materials, and public information. Restoration projects include actions taken to preserve the Bay and its tributaries.

The Restoration Fund has received in excess of \$300,000 per year during this period.

## **II. THE ADVISORY COMMITTEE**

The Chesapeake Bay Preservation Act established the Advisory Committee within the legislative branch to advise the General Assembly on the expenditure of moneys received in the Chesapeake Bay Restoration Fund. [Va. Code § 10.1-2116 (Michie 1998)]

The Committee consists of seven persons as follows:

- Legislators: two members of the House of Delegates and one member of the Senate.
- Citizens: two persons appointed by the Speaker of the House of Delegates, one of whom shall be a representative of the Chesapeake Bay Foundation, and two persons appointed by the Senate Committee on Privileges and Elections, one of whom shall be a representative of the Virginia Association of Soil and Water Conservation Districts.

Other requirements of the committee members include:

- All persons appointed shall be representative of all interests associated with restoration and conservation of the Chesapeake Bay.
- At least one citizen member shall be a current holder of the “Friend of the Chesapeake” license plate.

Committee members serve for terms of four years. Legislators’ terms shall be concurrent with their elected terms of office. Members are not eligible to serve for more than two consecutive terms. The Committee elects a chairman and vice-chairman from among its legislative membership.

The Committee shall develop goals and guidelines for use of the Fund, which may include but not be limited to cooperative programs with, or project grants to, state agencies, the federal government, or any not-for-profit agency, institution, organization, or entity, public or private, whose purpose is to provide environmental education and projects relating to the restoration and conservation of the Chesapeake Bay. The Committee is required to meet at least once a year. During this meeting, the Committee will review applications to form a list of recommended programs to receive grants, which is then presented to the Governor and General Assembly.

The members of the Chesapeake Bay Advisory Committee as of May 2012 are:

Senator Jeffrey L. McWaters (R - 8th District)  
Delegate M. Keith Hodges (R - 98th District)  
Delegate Margaret B. Ransone (R - 99th District)  
Terra Pascarosia Duff, Virginia Beach  
John W. Peterson, Burke  
Claiborne B. Roberts, Sandston  
Daniel G. Van Clief, III, Charlottesville

***Staff:***

Marty Farber, *Senior Research Associate*  
Gwen Foley, *Senior Operations Staff Assistant*  
Division of Legislative Services

### **III. SUMMARY OF ACTIVITIES**

The Chesapeake Bay Restoration Fund experienced continued growth by increased sales of the specialty license plate. Grant activity in 2000 - 2012 totaled \$4.9 million. In 2004, the Committee distributed \$468,000, the highest annual amount to date after receiving its highest number of grant applications to date, 109, from civic and community groups, environmental organizations, schools, and public agencies. The Committee awarded sixty-one grants, about thirty-six percent for amounts of less than \$5,000.



Thanks to the generosity of Virginia citizens, revenues from the purchase of the popular Chesapeake Bay commemorative license plate totaled \$300,000 each year. Sales have climbed to \$1 million. The Fund is grateful for the generosity of the concerned citizens who have supported these initiatives.

**Number of Chesapeake Bay Plates sold over Fiscal Years**

FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
13,672	17,633	17,465	14,835	18,720	17,577	14,080
FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	
14,484	14,502	15,702	13,182	12,471	12,306	

**Amount Received by the Chesapeake Bay Restoration Fund by Fiscal Year**

FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
\$341,811	\$440,849	\$436,643	\$370,879	\$468,000	\$439,433	\$352,021
FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	
\$362,102	\$362,562	\$392,574	\$329,574	\$311,777	\$307,662	

**IV. APPLYING FOR A GRANT**

**Eligible groups:**

- State agencies
- Local government
- Public or private not-for-profit agencies
- Institutions
- Organizations

**Types of projects:**

- Environmental education and action-oriented conservation and restoration projects within Virginia’s Chesapeake Bay Watershed.

**Individuals are not eligible for grants.**

**Activities that are NOT eligible for funding include:**

- Capital construction
- Endowments
- Annual giving or fund raising
- Salaries or benefits (unless directly performing specific project activities)

- Indirect costs
- Food items
- Lawsuits/litigation
- Political action programs/lobbying

Grants are awarded for one year, except in special circumstances. Recipients are accountable for documenting how grant funds are used through the submission of a final financial and narrative report due upon the completion of the project's activities.

## A. CRITERIA

- Will have a positive, tangible benefit to the Bay and Bay program;
- Presents clear objectives, including a plan for achieving these objectives (presents a specific, feasible plan of action to accomplish well-defined results);
- Demonstrates qualifications necessary to carry out the project, including technical and financial feasibility;
- Provides an opportunity for cooperation among diverse organizations;
- Utilizes existing resources and expertise from local businesses, industries, public agencies, academic institutions, and conservation and environmental organizations;
- Emphasizes the service of volunteers to minimize administrative overhead; and
- Demonstrates a realistic prospect for successfully completing the project.

## B. APPLICATION PROCEDURES

Applicants should complete the grant application form available from the Chesapeake Bay Restoration Advisory Committee. **No application will be accepted after the 5:00 p.m., October 1, deadline.** Proposals should be typewritten. Applicants are encouraged to submit proposals in the areas of environmental education and restoration and conservation projects of the Chesapeake Bay.

### 1. Environmental Education Priorities

The goal of environmental education is to increase public awareness and knowledge about the Bay eventually resulting in behavioral change. Proposals should:

- supplement and enhance environmental training for educators.
- expand environmental educational opportunities and the use of existing educational resources (curricula, publications, and field studies) in schools and community programs for students, teachers, and adults.
- increase the involvement of students and the public in Bay restoration activities.
- increase public support for Chesapeake Bay restoration by purchase of Chesapeake Bay license plates.

## **2. Restoration and Conservation Priorities**

The goals of restoration and conservation education are to engage in activities that restore important Bay wetlands and habitat. Proposals should:

- contribute to meeting tributary strategy nutrient goals.
- protect water quality from nonpoint sources of water pollution resulting from the use of land.
- enhance and protect tidal fishery habitats.
- restore tidal fisheries (finfish, crabs, clams and oysters).
- focus on the prevention of toxic substances entering the Bay and its tributaries.

Projects selected for funding will be included in the amended budget bill. Applicants will receive notification of their awards by the Advisory Committee upon approval of the state budget the following May.

# **GRANT PROJECTS LIST**

## 2000 GRANT PROJECTS

NAME	PROJECT #	PAGE
<b>Alexandria Seaport Foundation</b>	<b>000-005</b>	144
<b>Alliance for the Chesapeake Bay</b>	<b>000-031</b>	211
<b>Chesapeake Bay Foundation</b>	<b>000-032</b>	212
<b>Chesapeake Volunteers in Youth Services, Inc./Chesapeake Bay Youth Conservation Corps.</b>	<b>000-013</b>	145
<b>Chippokes Plantation State Park</b>	<b>000-045</b>	59
<b>The College of William and Mary, School of Education</b>	<b>000-029</b>	57
<b>Crater Planning District Commission</b>	<b>000-066</b>	215
<b>Eastern Shore of Va. Resource Conservation &amp; Development Council</b>	<b>000-011</b>	145
<b>The Elizabeth River Project</b>	<b>000-042</b>	331
<b>Fairfax County Public School, Instructional Services Division - Nonpoint Source Pollution Instruction Model</b>	<b>000-038</b>	58
<b>Friends of Bull Run, Inc.</b>	<b>000-039</b>	213
<b>Friends of Chesterfield's Riverfront</b>	<b>000-056</b>	401
<b>Friends of the Shenandoah River (Shenandoah River Basin)</b>	<b>000-086</b>	335
<b>Granby High School</b>	<b>000-083</b>	334
<b>Hampton Roads Academy</b>	<b>000-064</b>	60
<b>Headwaters Soil &amp; Water Conservation</b>	<b>000-006</b>	210
<b>Headwaters Soil &amp; Water Conservation</b>	<b>000-008</b>	144

<b>Hoffler Creek Wildlife Foundation, Inc.</b>	<b>000-055</b>	214
<b>Hopewell Regional Wastewater Treatment Facility</b>	<b>000-074</b>	333
<b>Interstate Commission on the Potomac River Basin</b>	<b>000-041</b>	330
<b>James River Association</b>	<b>000-046</b>	332
<b>James River Soil &amp; Water Conservation</b>	<b>000-007</b>	399
<b>Keep Fauquier Clean, Inc. - Cedar Run Monitoring Project</b>	<b>000-019</b>	55
<b>Keep Fauquier Clean, Inc. - Marsh Run Monitoring Project</b>	<b>000-020</b>	55
<b>Loudoun Soil and Water Conservation District</b>	<b>000-080</b>	63
<b>Loudoun Soil and Water Conservation District</b>	<b>000-081</b>	217
<b>Magruder Primary School</b>	<b>000-084</b>	63
<b>Mattaponi Heritage Foundation</b>	<b>000-027</b>	330
<b>National Wildlife Federation</b>	<b>000-065</b>	214
<b>Natural Bridge and Soil Water Conservation District</b>	<b>000-022</b>	56
<b>Nature's Wonder World, Inc.</b>	<b>000-023</b>	56
<b>Page County Tree Board</b>	<b>000-014</b>	399
<b>Piedmont Environmental Council</b>	<b>000-054</b>	333
<b>Piedmont Soil and Water Conservation District - Prince Edward County Government</b>	<b>000-043</b>	400
<b>Rappahannock Area Development Commission</b>	<b>000-076</b>	216

<b>Shenandoah National Park</b>	<b>000-077</b>	62
<b>Students Against Global Abuse (SAGA) Herndon High School</b>	<b>000-047</b>	59
<b>Students Serving Stafford - Stafford County Public Schools</b>	<b>000-025</b>	57
<b>Three Rivers Soil and Water Conservation</b>	<b>000-033</b>	58
<b>Tidewater Oyster Gardeners Association</b>	<b>000-034</b>	212
<b>UVA - Va. Museum of Natural History</b>	<b>000-012</b>	210
<b>Va. Division of the Izaak Walton League - Va. Save Our Streams</b>	<b>000-021</b>	329
<b>Va. Institute of Marine Science/Center For Coastal Resources Management (Chesapeake Bay Watch)</b>	<b>000-070</b>	216
<b>Va. Institute of Marine Science/College of William and Mary (Oyster Gardener/ ABC Interaction Project)</b>	<b>000-053</b>	332
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<b>Va. Tech - Virginia Cooperative Extension, Spotsylvania County 4-H</b>	<b>000-028</b>	211
<b>Virginia Wesleyan College</b>	<b>000-078</b>	62
<b>Water Quality Advisory Committee for Page County</b>	<b>000-085</b>	334

<b>The Watermen's Museum</b>	<b>000-026</b>	146
<b>York County Beautification Committee</b>	<b>000-040</b>	213



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Chesapeake Bay Governor's School	001-086	70
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Culpeper Soil & Water Conservation District (Farm Tour)	001-045	402
Department of Conservation and Recreation Division of Natural Heritage (Savage Neck Dunes)	001-094	340
Eastern Shore Soil & Water Conservation District	001-038	67
Elizabeth River Project	001-080	226
Fairfax County Park Authority (Ellanor C. Lawrence Park)	001-065	338
Fairfax County Public Schools, Instructional Services Division	001-056	68
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Friends of Chesterfield's Riverfront	001-058	222

<b>Friends of the Rappahannock, Inc. (Parking Lot Biofiltration)</b>	<b>001-077</b>	224
<b>The Friends of the Shenandoah River</b>	<b>001-073</b>	338
<b>Fulk's Run Elementary School</b>	<b>001-100</b>	71
<b>Goose Creek Scenic River Advisory Board</b>	<b>001-008</b>	218
<b>Granby High School</b>	<b>001-060</b>	69
<b>Headwaters Soil &amp; Water Conservation District</b>	<b>001-089</b>	405
<b>Hoffler Creek Wildlife Foundation, Inc.</b>	<b>001-003</b>	218
<b>Interstate Commission on the Potomac River Basin</b>	<b>001-042</b>	337
<b>James River Association</b>	<b>001-054</b>	221
<b>Keep Fauquier Clean, Inc. (Cedar Run Monitoring Project)</b>	<b>001-034</b>	66
<b>Keep Fauquier Clean, Inc. (Marsh Run Monitoring Project)</b>	<b>001-035</b>	67
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# ENVIRONMENTAL EDUCATION PROJECTS

IN THE SCHOOLS  
AND  
BY ORGANIZATIONS EDUCATING THE  
YOUTH AND THE COMMUNITY

## **EDUCATION IN THE SCHOOLS**

### **Keep Fauquier Clean, Inc. - Cedar Run Monitoring Project Project #: 000-019**

Plan: Students at Fauquier High School will continue to test water in the Bay and have a weekend environmental study focused on watershed ecology. Data will be available to the community for implementation of water quality improvement measures in Cedar Run. Data will also be compared with that gathered by Liberty High School's AP Biology students at Marsh Run.

Results: The grant provided the funding for the continuation of water testing at Cedar Run. The hands-on experience was meaningful for the students.

Amount granted: \$880.00

P.O. Box 337  
Warrenton, VA 20188  
540-364-1652

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### **Keep Fauquier Clean, Inc. - Marsh Run Monitoring Project Project #: 000-020**

Plan: Students at Liberty High School's AP Biology class will continue to collect data from Marsh Run to assist interested parties in developing a water quality program. Additional data will be useful in determining a profile of the stream's health over time.

Results: The Marsh Run Monitoring project was developed to provide a long-term, hands-on water quality monitoring project to Advanced Placement Biology students at Liberty High School. The project provided students with valuable field experience, involved the students in a timely community issue, and allowed interaction with various professionals in the field of environmental science.

Amount granted: \$960.00

P.O. Box 337  
Warrenton, VA 20188  
540-364-1652

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**Natural Bridge and Soil Water Conservation District**  
**Project #: 000-022**

Plan: This environmental education project would again offer teacher training/education scholarships for 10 individuals, update and print "Resource Handbook" for the Rockbridge area, and provide educational resource and instructional equipment items for use in area high schools. Due to lack of teacher responses last year, the funds granted for this project were returned.

Results: Eight teachers from Rockbridge County participated in the "From Blue Ridge to the Bay" workshop at one of the Chesapeake Bay Foundation's island education centers. The teachers presented a slide program of the trip at their annual awards banquet.

Amount granted: \$2,200.00

30 E. Preston St.  
Lexington, VA 24450-2325  
540-463-7124 ext. 101

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**Nature's Wonder World, Inc.**  
**Project #: 000-023**

Plan: Nature's Wonder World would like to select a middle school that has previously participated in their Aquatic Ecosystem Field Study Program and extend this opportunity to the entire Grade 7 population at that school.

Results: The Nature's Wonder World Field Study program was supported by the fund. This program was offered to Grade 7 Prince William County Public school students, supported the Virginia Science Standards of Learning, and provided a field experience which extended the scope of information learned in the classroom.

Amount granted: \$4,475.00

2560 Paxton St.  
Woodbridge, VA 22192  
703-490-0455

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**Students Serving Stafford - Stafford County Public Schools**  
**Project #: 000-025**

Plan: Stafford Senior High School, Gayle Middle School, and Falmouth Elementary School propose to "Patch Up The Bay" by training high school students to grow underwater grasses in the Bay's "Bay Grasses in Classes" program to help replenish the blue crab population. After the seniors are trained, they will teach and train 8th grade science classes to grow the underwater grasses. Together the two groups will create a lesson plan for the 8th graders to present to 5th graders who then put on a play to present to 1st graders.

Results: "Patch Up the Bay" centered on three schools in Stafford County. Brooke Point High Schools students worked with Stafford Middle School students to raise underwater grasses. The grasses were planted in the Falmouth Beach area of the Rappahannock River. The project made the importance of replenishing the natural habitat abundantly clear to adults and children of all ages.

Amount granted: \$2,950.00

1729-A Jefferson Davis Hwy.  
Stafford, VA 22554  
540-658-6066

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**The College of William and Mary, School of Education**  
**Project #: 000-029**

Plan: The College of William and Mary proposes to provide middle and high school students with an opportunity to collect, share, and use real scientific data as required by the Virginia SOL while it also addresses the issue of recreational harvesting of the blue crab fishery. Teachers will be trained to conduct scientific investigations in the classroom.

Results: The project "Classroom use of technology, data collection, and science in the Chesapeake Bay: An Internet-based project for students to gain investigative experience by exploring Blue Crab Recreation Catch" has enabled many students and teachers to become more familiar with scientific research and the issues of recreational catch in Virginia's Blue Crab fishery.

Amount granted: \$4,500.00

Williamsburg, VA 23185  
P.O. Box 8795  
804-684-7144

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**Three Rivers Soil and Water Conservation District**  
**Project #: 000-033**

Plan: Three Rivers SWCD would like to purchase an Enviroscape III model with the Environmental Resources guides to demonstrate how water becomes polluted and how to prevent such pollution. Beginning August 2000, SWCD will host training seminars for all primary and secondary teachers in their district using the new equipment and material.

Results: The Three Rivers Soil and Water Conservation District purchased an Enviroscape II model with the Environmental Resources guides with the grant fund. The model is used with children's groups and for teacher education programs.

Amount granted: \$1,043.00

P.O. Box 815  
Tappahannock, VA 22560  
804-443-2327

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**Fairfax County Public Schools, Instructional Services Division - Nonpoint Source Pollution**  
**Instructional Model**  
**Project #: 000-038**

Plan: FCPS would like to purchase eight Enviroscape Nonpoint Source Models (a class set) which will be shared among 7th graders at three schools. The application of pollution abatement strategies and experiments using the Model can serve as a way to determine how well students understand sources of point and nonpoint water pollution as well as behaviors to reduce or eliminate pollutants to watersheds. This will help prepare the students for the Grade 8 SOL test in science.

Results: Five Enviroscape tables and one Portable Enviroscape Table were purchased with grant money. A total of four middle schools used the tables in teaching how everyday situations can impact the Chesapeake Bay.

Amount granted: \$3,174.00

10700 Page Ave.  
Fairfax, VA 22030  
703-846-8626



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**Chippokes Plantation State Park**  
**Project #: 000-045**

Plan: Chippokes proposes to provide schools and youth groups with at least six different environmental learning activities on site. They will experiment with fossils and investigate estuarine organisms and life forms, equilibrium in populations of a salt marsh, and changes associated with land use decisions and changes over time in a plantation.

Results: The CBRF permitted Chippokes Plantation State Park to reach their goal of expanding environmental programming opportunities to the local community. The programs offered through the grant were instructional in local participants now identifying Chippokes Plantation State Park as an excellent resource for environmental education. The funds also established mutually beneficial programming relationships with other agencies including Virginia Game and Inland Fisheries and the Virginia Natural History Museum, as well as local schools.

Amount granted: \$7,500.00

695 Chippokes Park Rd.  
Surry, VA 23883  
757-294-3625

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**Students Against Global Abuse (SAGA) Herndon High School**  
**Project #: 000-047**

Plan: SAGA seeks funds to continue project 98-018; money is needed to erect bluebird nesting boxes and two purple martin nesting centers and plant native blueberry and blackberry shrubbery for wildlife. SAGA also proposes to establish and monitor a 40-acre perimeter of HHS bluebird trail and a continuation of earlier grants to sustain greenhouse activities and projects.

Results: Grant activities encompassed the salvaging of native plants, shrubs and trees from pre-developed sites, and their propagation and nursing in the HHS greenhouse for transplantation in selected erosion control and wildlife habitat projects in the Herndon-Reston area. Native trees, shrubs, and plants were propagated and replanted in several area butterfly gardens and demonstration plots. Some 500 trees/shrubs and some 8,000 plants were planted in area butterfly gardens and watershed areas. A total of 15 bluebird boxes have been erected around Herndon High's sports fields, demonstration plots, and butterfly gardens.

Amount granted: \$1,000.00

700 Bennett St.  
Herndon, VA 20170  
703-810-2350

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**Va. Marine Science Museum  
Project #: 000-061**

Plan: VMSM proposes to develop outreach programs that use cutting edge technology and pilot these programs to 800 students at four schools throughout Virginia.

Results: With the aid of this grant, the Virginia Marine Science Museum has developed a highly interactive assembly program, presented the program to over 1,300 students at four elementary schools around the state, and developed a curriculum guide for teachers to accompany the program. P. T. Phylum's *Ocean in Motion* extravaganza interactive assembly program kits were presented in schools throughout Virginia. Since the debut of this program, 38,210 students across Virginia have participated in this program.

Amount granted: \$10,000.00

717 General Booth Blvd.  
Virginia Beach, VA 23451  
757-437-6030

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**Hampton Roads Academy  
Project #: 000-064**

Plan: Hampton Roads Academy proposes that Marine Biology and A.P. Biology 11th and 12th graders wish to expand their study of oyster raising projects to include the relationship between primary productivity, nitrate levels, and geographical location on the growth of oysters.

Results: A study of the relationship between primary productivity and oyster growth was conducted by high school students with the support of this grant. The study was undertaken to address scientific research goals and course objectives. One of the most successful outcomes of this study was an appreciation of processes in the Chesapeake Bay. The differences in tributaries were evident in the differential overall growth of the oysters. Oyster growth and student growth are not a result of a single factor, but are due to the interaction of many variables.

Amount granted: \$942.30

739 Academy Lane  
Newport News, VA 23602  
757-884-9129

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**Virginia Living Museum**  
**Project #: 000-067**

Plan: VLM proposes Phase 2 of its outreach educational Discovery Box project by sending out brochures to area and regional schools announcing the availability of the expanded Discovery Box series. VLM would like to provide a one-week free rental of one of the two Bay-related Discovery Boxes to a maximum of 45 schools.

Results: As a result of this grant, The Virginia Living Museum began promoting the free loan of the Chesapeake Bay *Shark Secret* and *Under the Bay* Discovery Boxes. The grant has made it possible for the Virginia Living Museum to pursue its goal of creating an awareness of the Chesapeake Bay by involving students from all over Virginia in exciting, active hands-on learning through the Discovery Box outreach program.

Amount granted: \$4,975.00

524 J. Clyde Morris Blvd.  
Newport News, VA 23601  
757-595-1900, Ext. 12

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**Va. Institute of Marine Science/Sea Grant Marine Advisory Program**  
**(Marine Science Lab)**  
**Project #: 000-071**

Plan: The Sea Grant Marine Advisory Program at VIMS is requesting funding for the materials and supplies to provide a one-credit, one-semester, 500-level, graduate course, "The Scientific Method in the Marine Science Laboratory; Case Studies from Chesapeake Bay" for each participating 9-12 grade teacher in the Williamsburg-James City, York, Gloucester, and Hampton school districts, and the financial means for teachers to attend.

Results: The grant sponsored a one-credit graduate course for teachers, *Experimental Design in the Marine Science Laboratory*. The overall theme of the course was scientific reasoning and investigations in marine science. Utilizing authentic Chesapeake Bay research models, faculty provided scientific information, data, and tools to assist teachers in advancing student learning skill and problem solving abilities. The funding provided tuition, instructional materials, and materials for the teachers to take back to their classrooms.

Amount granted: \$11,750.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7735

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**Shenandoah National Park**  
**Project #: 000-077**

Plan: The Park proposes to develop and implement a curriculum-based education program for middle and high school students focused on watersheds. The students will trace the path of water from the mountains of Shenandoah National Park to the shores of the Bay.

Results: Since the inception of the **From the Mountains to the Bay** project and the publication of the *Exploring Earth Science in Shenandoah National Park* curriculum, 276 teachers from Virginia, Maryland, and Washington, D.C. have attended workshops and 1,060 students have studied earth science in Shenandoah National Park. The curriculum addresses many higher level concepts in resource protection related to the Chesapeake Bay watershed: global climate change, acid rain, endangered species and habitat preservation, protection of watershed, and individual responsibility in assessing information and taking action.

Amount granted: \$2,000.00

3655 U.S. Hwy. 211 East  
Luray, VA 22835  
540-999-3482

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**Virginia Wesleyan College**  
**Project # 000-078**

Plan: The College is seeking funding for two summer workshops in hands-on environmental science that focus on biodiversity, ecosystem functioning, and environmental monitoring. Each workshop would be attended by 15 local teachers.

Results: The funds were used to conduct a teacher-training workshop INST 345 - Seminar in Hands-On Environmental Science. Grant funds were used to cover a portion of the tuition for teachers enrolled in the program. Since the program attracted four teachers to the course, \$6,010 of the grant was not spent and was returned. No further funding.

Amount granted: \$7,050.00

1584 Wesleyan Dr.  
Norfolk, VA 23502  
Phone #: 757-455-3247

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**Loudoun Soil and Water Conservation District**  
**Project #: 000-080**

Plan: LSWCD proposes to sponsor four Watershed Education field trips for Loudoun county students (grade 6-12). The trips will offer students the opportunity to visit local waterways in the Bay watershed.

Results: The fund provided the financial assistance necessary for the Loudoun Soil and Water Conservation District to sponsor eight Watershed Education Field Trips for school students. The field trips involved 184 students in hands-on investigation of Goose Creek, a tributary in Loudoun County, Virginia that affects the water quality of the Chesapeake Bay. Loudoun staff coordinated with school groups and organized the logistics of the field investigation that included floodplain and wetland studies; macroinvertebrate and fish surveys; water chemistry sampling; and examining the forestry, soil, and hydrology of riparian buffer zones.

Amount granted: \$800.00

30-H Catocin Circle, SE  
Leesburg, VA 20175  
703-777-2075, Ext. 104

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**Magruder Primary School**  
**Project #: 000-084**

Plan: Magruder Primary School proposes an educational project to "bridge" the environments of the Bay and the Peterson Yacht Basin by providing environmental training for teachers, expanding educational opportunities by constructing an outdoor classroom in partnership with the Virginia Living Museum, and increasing the involvement of students and parents in Bay restoration activities.

Results: No final report. No future funding.

Amount granted: \$4,900.00

1712 Chestnut Ave.  
Newport News, VA 23607  
757-928-6838

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**Monacan Soil & Water Conservation District  
(Conservation Days)  
Project #: 001-002**

Plan: Monacan SWCD proposes to use the funds to help defray the costs for Conservation Days held by the 7th graders at Pocahontas Middle School. These costs include transportation, the renting of bathroom facilities, and the purchasing of some visual aids.

Results: The Conservation Days program provided over 300 seventh graders with a hands-on conservation educational experience. All students rotated between stations that covered information on soils, water monitoring, wildlife and ponds, forestry, and nonpoint source pollution. The program allowed students to assist with water testing, soil texturing, and much more.

Amount granted: \$250.00

P.O. Box 66  
Goochland, VA 23063  
804-556-4936

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**Va. Tech - Virginia Cooperative Extension King George County  
Project #: 001-006**

Plan: This project creates a fourth grade study unit on watersheds and facilitates its implementation in area schools. A part-time individual will be employed to develop the watershed curriculum, market the unit to teachers, and teach the unit at pilot schools.

Results: The project created an interactive study unit on watersheds for the fourth grade. Forty-five teachers participated in two teachers' workshops in the study unit. In addition, the watershed unit was taught in four schools reaching over 650 students and an additional 24 teachers. A resource kit containing all materials from the unit was made available for loan to schools. Students who participated in the study unit demonstrated understanding of watershed and problem solving abilities on Chesapeake Bay issues.

Amount granted: \$6,525.00

P.O. Box 410  
King George, VA 22485  
540-775-3062

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**St. Theresa School**  
**Project #: 001-011**

Plan: The school proposes to give students firsthand experience with stream monitoring protocol as a way to learn about the living and nonliving stream environment in Beaverdam Run. They are requesting equipment to study the stream including waders, nets, buckets, magnifiers, chemical test kits, field microscopes, and reference materials.

Results: No results. No future grants.

Amount granted: \$1,633.00

21370 St. Theresa Lane  
Ashburn, VA 20147  
703-729-3577

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**Va. Institute of Marine Science College of William and Mary**  
**(Juvenile Bluefish)**  
**Project #: 001-026**

Plan: VIMS proposes to collect juvenile bluefish from the Bay and Virginia coastal waters and use stomach contents analysis to determine the most important prey types in their diet.

Results: Sixty-seven (young-of-the-year) bluefish were collected from this region in the summer. Bay anchovy and Atlantic silverside were the main prey in the diet, while planktonic crustaceans were of secondary importance. This study added to the comprehensive understanding of juvenile bluefish foraging along the U.S. Atlantic Coast. The data will be incorporated in multispecies models for the Chesapeake Bay region, which will yield a greater understanding of species interactions in this area.

Amount granted: \$4,500.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7000

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**Wilbur S. Pence Middle School**  
**Project #: 001-030**

Plan: Wilbur S. Pence Middle School's Agriscience program proposes to adopt a local stream that feeds into the Shenandoah River. The requested funds for the adopted stream would be applied to an aquaculture tank, water testing on a regular basis, restore natural habitats, plant 1,000 trees and shrubs, and lumber for a tree project.

Results: With the adoption of a stream that feeds in the North River, 78 students planted a mixture of trees in the location. As recommended by the Department of Forestry, the trees were spaced at certain intervals and recommended seedlings such as Green Ash, River Birch, Hackberry, Northern Red Oak, and Pin Oak were planted. The objectives to educate all students in the Agriscience program, to have a community service project to help the Chesapeake Bay Foundation, and to develop a restoration project in the adopted region were met.

Amount granted: \$1,090.00

375 Bowman Rd.  
Dayton, VA 22821  
540-879-2535

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**Keep Fauquier Clean, Inc.**  
**(Cedar Run Monitoring Project)**  
**Project #: 001-034**

Plan: Biology students at Fauquier High School propose to continue their project for a third year by providing additional data useful in developing a profile of the stream's health over time. They seek funding for two Bay watershed trips, supplement/replacement materials, 10 fecal coliform testing kits, and reproduce 100 copies of their "Backyard Conservation" publication for distribution.

Results: The project provided hands-on water monitoring experiences to students who are often underserved the opportunity to apply learned concepts from several academic areas and practices to a "real life" situation, involvement in a timely issue impacting their community, field experience, and interaction with John Marshall SWCD (Soil and Water Conservation) specialists and other specialists in the field of environmental science.

Amount granted: \$990.00

P.O. Box 337  
Warrenton, VA 20188  
540-364-1652



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**Keep Fauquier Clean, Inc.**  
**(Marsh Run Monitoring Project)**  
**Project #: 001-035**

Plan: Students at Liberty High School's AP Biology class will continue for the "fifth year" to collect data from Marsh Run to assist interested parties in developing a water quality program. Additional data will be useful in determining a profile of the stream's health over time. They seek funding for a Bay watershed trip, 10 fecal coliform testing kits, and to reproduce 100 copies of their "Backyard Conservation" publication for distribution.

Results: As a result of this project, the students came away with a better understanding of stream ecology and how decisions in everyday life can have a positive or negative effect on the environment.

Amount granted: \$590.00

P.O. Box 337  
Warrenton, VA 20188  
540-364-1652

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**Eastern Shore Soil & Water Conservation District**  
**Project #: 001-038**

Plan: Eastern Shore SWCD seeks funding to develop an outdoor classroom at Metompkin Elementary School in Parksley by identifying, locating, and planting appropriate vegetation.

Results: The addition of the outdoor classroom at Metompkin Elementary School will support their hands-on instruction about native plants and their value in the environment. The District will be developing programs for training the teachers at the school in various activities that will use the outdoor classroom resource.

Amount granted: \$3,500.00

22545 Center Parkway  
Accomac, VA 23301  
757-787-0918, Ext. 119

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**Fairfax County Public Schools, Instructional Services Division**  
**Project #: 001-056**

Plan: FCPS received eight Enviroscope Nonpoint Source Models for their 7th graders in the grant year 2000. This program was so well received that they are requesting funds to purchase six additional models for 5th graders at their field-test elementary schools.

Results: Funds received for the 2001-2002 school year were used to purchase five more Enviroscope Tables. These were sent to Jackson Middle School and will be given to teachers for use in the classroom and will be shared with another middle school.

Amount granted: \$3,474.00

10700 Page Ave.  
Fairfax, VA 22030  
703-846-8626

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**Va. Marine Science Museum (Dolphins)**  
**Project #: 001-059**

Plan: VMSM proposes to provide a hands-on, minds-on environmental educational program for 1,500 students from Title I schools in Hampton Roads. These students will visit VMSM to act the roles of researcher, stranding team member, reporter and concerned citizen, and work together to solve the mystery of a dolphin stranded on the shores of the Bay.

Results: The grant enabled the Virginia Science Museum to bring 1,500 students from 17 high-needs schools from eight cities across Hampton Roads to the museum free of charge. Students toured the Chesapeake Bay, Ocean and Salt Marsh exhibits, and participated in museum programs. This program increased students' knowledge of an appreciation for the Chesapeake Bay and other marine environments.

Amount granted: \$7,425.00

717 General Booth Blvd.  
Virginia Beach, VA 23451  
757-437-6030

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**Granby High School**  
**Project #: 001-060**

Plan: Granby High School, a maritime pathway school, proposes to have students plant and maintain until established a demonstration buffer zone of native plants in Lafayette Park on the Lafayette River. Students will also visit a variety of sites that allow them to observe human impact upon estuary shorelines.

Results: The purpose of this project was to plan, execute, and maintain until established an environmentally-friendly landscape plan at the Ernie Morgan Environmental Center. The goal was to create a demonstration garden which created extensive use of cultivars of native plants and shrubs that would retard erosion along estuary coasts and require a minimum of spraying. The project has increased awareness of the importance of estuary friendly landscaping and the benefits of using plants adapted for life in the coastal plain environment.

Amount granted: \$5,250.00

7101 Granby St.  
Norfolk, VA 23505-4097  
757-441-1265

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**Lancaster Middle School**  
**Project #: 001-063**

Plan: Lancaster Middle School proposes to establish a public education program designed to communicate all facets of the Bay to residents through seven public education forums at their school, to produce and publish written work that details and highlights the education effort with 50 percent of the proceeds from publication being donated to the Bay Fund, and to produce a web page.

Results: The specific purpose of this project was to heighten awareness of the Chesapeake Bay through an exploration of the impact of the Chesapeake Bay on local culture and the impact of residents on the Chesapeake Bay. Photographs, illustrations, and written works were collected, collated, and published in a book entitled: *Tschiswapeki, An Exploration of Local Bay Culture*. The project was instrumental in educating students and community residents about Chesapeake Bay concerns and the impact of local culture on the health of the Bay.

Amount granted: \$4,700.00

191 School St.  
Kilmarnock, VA 22482  
804-435-1681

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**Chesapeake Bay Governor's School  
(Essex County Schools)  
Project #: 001-086**

Plan: The Chesapeake Bay Governor's School requests funds to train teachers who would then train students on how to collect water quality samples from Hoskins Creek to test for E. coli contamination. Findings would be included in a report for relative shareholder groups.

Results: Students gained firsthand knowledge of environmental issues and water quality sampling and testing procedures. They learned about the various state agencies available to assist and provide valuable information and guidance. Data from the lower three sites provided a baseline for the Essex Board of Supervisors in the development of their new treatment facility.

Amount granted: \$3,750.00

P.O. Box 756  
Tappahannock, VA 22560  
804-443-0267

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**Liberty High School  
Project #: 001-091**

Plan: Liberty High School proposes for their "River Stream Monitoring Club" to take daily climate parameters and make periodic visits to local rivers and streams in the Rappahannock watershed to take measurements in accordance with GLOBE protocols.

Results: With the use of the fund, the Liberty High School environmental club has had the opportunity to visit various locations along the Rappahannock River and periodically test the quality of the water. With the collected data, they are continuing to gather baseline parameters which can be used in the future to justify the impact of man's impact on the Rappahannock and Chesapeake Bay watersheds.

Amount granted: \$1,804.30

6300 Independence Ave.  
Bealeton, VA 22712  
540-439-6300

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**Students Against Global Abuse - SAGA**  
**Herndon High School**  
**Project #: 001-099**

Plan: SAGA seeks additional funding to continue to support the establishment of native, perennial flowers and shrubs on their wildlife and stormwater retention plots established with grant money in 1998 and 1999.

Results: The grant specifically covered SAGA's efforts in continual support for their greenhouse and wildlife/reforestation habitat projects. Grant activities encompassed the salvaging of native plants, shrubs and trees from pre-developed sites, and their propagation and nursing the HHS greenhouse for transplantation in selected erosion control and wildlife habitat projects in the Herndon-Reston area.

Amount granted: \$2,000.00

700 Bennett St.  
Herndon, VA 20170  
703-810-2350

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**Fulks Run Elementary School**  
**Project #: 001-100**

Plan: Fulks Run Elementary School proposes to contract with the North Fork Nature Center to provide two days of intensive classroom activities for students Grades 4 and 5. The Center will also facilitate a day of onsite experiential activities for all students in Grade 4 and for all students in Grade 5 at the North Fork of the Shenandoah River. On a separate day, the fifth grade students will travel to the Bay, noting the path of the North Fork as it becomes the Shenandoah River and joins with the Potomac at Harper's Ferry.

Results: Fourth graders learned watershed vocabulary and address and traced water from the local headwater spring to the Chesapeake Bay with maps, art projects, and journals. They surveyed the river for evidence of erosion, fluctuating water levels, weathering, succession, and to study "river language." They measured the physical attributes and collected and identified macroinvertebrates to determine stream quality. The rise of test scores for the SOLs illustrates the success of the headwaters education program at Fulk's Run Elementary School.

Amount granted: \$1,075.00

P.O. Box 609  
Fulks Run, VA 22830  
540-896-3935

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**Rockbridge County Public Schools**  
**Project #: 002-007**

Plan: Rockbridge proposes that 20 middle school students will study the water quality of the James River Basin and the Bay watershed and prepare a public awareness campaign on this natural resource. They seek funds to charter a bus, motel rooms, food, two stream monitor kits, substitutes for teachers, Baywatcher fee, and supplies.

Results: The fund was spent on two stream monitoring kits, publication and general supplies, and a trip to Smith Island. The hands-on approach that was provided has increased student and community interest in the Chesapeake Bay watershed.

Amount granted: \$1,050.00

417 Morningside Dr.  
Lexington, VA 24450  
540-463-7386

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**John Marshall Soil & Water Conservation District**  
**(Keep Fauquier Clean, Inc. - Marsh Run Monitoring Project)**  
**Project #: 002-011**

Plan: Students at Liberty High School's AP Biology class will continue for the sixth year to collect data from Marsh Run to assist interested parties in developing a water quality program. Additional data will be useful in determining a profile of the stream's health over time. They seek funding for a Bay watershed trip, 10 fecal coliform testing kits, and supplemental/replacement materials.

Results: Most of the fund was returned because of unforeseen problems that prevented monitoring of Marsh Run.

Amount granted: \$800.00

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186-2849  
540-347-3120

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**John Marshall Soil & Water Conservation District  
(Keep Fauquier Clean, Inc. Cedar Run Monitoring Project)  
Project #: 002-012**

Plan: Biology students at Fauquier High School propose to continue their project for a fourth year by providing additional data useful in developing a profile of the stream's health over time. They seek funding for two Bay watershed trips, supplement/replacement materials, and 10 fecal coliform testing kits.

Results: Most of the fund was returned due to lack of monitoring of Cedar Run.

Amount granted: \$950.00

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186-2849  
540-347-3120

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**Va. Tech - Virginia Cooperative Extension, King George County  
Project #: 002-014**

Plan: Va. Tech's King George County Extension proposes to target reduction of urban nonpoint source pollution by promoting landscape and lawn care Best Management Practices. This will be done by creating a mobile exhibit, develop and present a seminar to homeowners associations (HOA), and write monthly articles for HOA newsletters.

Results: The project targeted reduction of urban nonpoint source pollution by promoting landscape and lawn care Best Management Practices to homeowners. Information was disseminated to homeowners through a mobile exhibit, seminars presented to homeowners associations, and monthly articles published in homeowners' association newsletters. Exhibits were displayed at local events, seminars were presented to five community groups, and articles were distributed to 10,000 households monthly.

Amount granted: \$4,000.00

P.O. Box 410  
King George, VA 22485  
540-775-3062

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**Hampton Roads Academy**  
**Project #: 002-031**

Plan: As in their 2000 application, Hampton Roads Academy proposes that 11th and 12th graders of Marine Biology, A.P. Biology, A.P. Chemistry, and the Environmental Club continue to expand their study of oyster raising projects to include the relationship between primary productivity, nitrate levels, and geographical locations on the growth of oysters.

Results: The project has allowed students to participate in a meaningful scientific research project in place of perfunctory classroom laboratory exercises with predictable known results. By engaging in this project, students studied factors which contributed to the overall health of the Chesapeake Bay by investigating parameters of oyster growth.

Amount granted: \$972.30

739 Academy Lane  
Newport News, VA 23602  
757-884-9129

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**John B. Cary Model Elementary School**  
**Project #: 002-040**

Plan: John B. Cary School proposes to increase the number of students that are exposed to the Little Scientists program and expand the program to include lessons that can be taught by the current staff.

Results: No report. No future funding

Amount granted: \$4,320.00

3021 Maplewood Ave.  
Richmond, VA 23221  
804-780-6252



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**Chesapeake Bay Governor's School  
(Essex County Schools)  
Project #: 002-047**

**Plan:** The Chesapeake Bay Governor's School in Essex County proposes to develop Marine Science exhibits that would be easily transportable to elementary schools. The Governor's School students would inform younger students about marine science habitats, which would result in an appreciation for the natural world and an understanding of biodiversity in the estuarine environment of the Bay.

**Results:** The grant allowed the development of a program that will be shared with the 12 participating school districts. The "M & M's Marine Science on the Move to School's" offered students the opportunity to share their wealth of information on marine and environmental science with elementary students. Through the development of labs and activities, elementary students were quick to absorb hands-on knowledge on how valuable our environment is.

Amount granted: \$5,000.00

P.O. Box 756  
Tappahannock, VA 22560  
804-443-0267

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**Virginia State University  
Project #: 002-054**

**Plan:** VSU proposes to integrate the use of a Geographical Information System (GIS) and water quality monitoring into natural and physical sciences at selected high schools.

**Results:** The grant funds enabled Virginia State University to perform Water Quality Monitoring and mapping by the Geographic Information System. The precollege programs for high school students and teachers involved hands-on activities in environmental science and agriscience through a student-teacher team. The teacher-student team participation facilitated teaching of environmental science in high schools, increased awareness of environmental issues among high school students, and provided an understanding of the causes of environmental pollution.

Amount granted: \$15,000.00

Carter Woodson Dr.  
Owens Hall, Room 113  
Petersburg, VA 23806  
804-524-6768

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**Commonwealth Governor's School - Colonial Forge High School  
(Spotsylvania County Schools)  
Project #: 002-068**

Plan: CGS seeks funding for sophomores and juniors, who are interested in the Environmental Action Group, to participate in a one-day training session in the spring and a week-long field experience in the summer. These students not only experience the watershed but gain skills, knowledge, resources, and strategies in environmental-related activities and projects to pass on to other students.

Results: Mix up with fund distribution to schools. No future funding.

Amount granted: \$350.00

550 Courthouse Rd.  
Stafford, VA 22554  
540-658-6115, Ext. 125

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**Virginia Institute of Marine Science - College of William and Mary  
(Sea Grant Marine Advisory Program)  
Project #: 002-071**

Plan: As in their 2001 application, The Sea Grant Marine Advisory Program at VIMS proposes to expand their "Outlook on Ocean Science" program for secondary students to include a 90-minute, hands-on program focused on the integrated aspect of marine science and its application to real world problems using the Bay as a model.

Results: The fund and funding extension helped support our *Outlook on Ocean Science* high school outreach program. The funds provided 27 programs to high schools reaching from Richmond to Virginia Beach. Half of the programs focused on marine science careers and demonstrations of marine research while the other half highlighted the interdisciplinary aspect of marine science via a theme of coastal storms. The award provided school students direct contact with active scientists and an excellent opportunity for graduate students to gain teaching experience.

Amount granted: \$5,800.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7735

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**Virginia Institute of Marine Science - College of William and Mary  
(Veined Rapa Whelk Project)  
Project #: 002-072**

Plan: VIMS proposes to increase the awareness and scientific literacy of Va. citizens regarding veined rapa whelks and their ecological impacts on local fauna, trophic networks, and shallow water (tidal) habitats through the development of public education tools such as an educational software program available on CD and a companion instructional booklet.

Results: The grant funds developed two instructional booklets, *Rundown on the Rapa* and *Rundown on the Rapa Activity Booklet for Educators*, and a multi-media CD ROM, *Veined Rapa Whelks*. The booklets were the focus of a teacher workshop led by Harding and Clark in conjunction with the annual meeting of the Mid Atlantic Marine Education Association. Approximately 30 teachers attended the workshop and gave the rapa whelk booklets favorable reviews and congruence with Virginia SOLs. Interest in these materials is not confined to local educators. The materials have been used at several national and international conferences discussing marine bioinvasions.

Amount granted: \$6,788.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7360

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**Hilton Elementary PTA  
Project #: 002-077**

Plan: Hilton PTA proposes to expand their "River Day" program by training teachers to use the James River as a backyard resource for environmental and conservation topics, host one or more conservation workshops, and broaden the audience of "River Day" by having an enhanced "Dream River Day" that would be filmed and shared with other schools and teachers.

Results: The grant provided the opportunity to have the Virginia Marine Science Museum, Ocean in Motion truck, touch tank, assembly, and hands-on demonstration of river seining by the Virginia Living Museum on River Day. (Part of the funds were used)

Amount granted: \$5,297.00

225 River Rd.  
Newport News, VA 23601  
757-595-6648

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**Fort Defiance High School**  
**Project #: 002-088**

Plan: Fort Defiance proposes to participate in a Port Isabel field trip to gain appreciation of the Bay, work on oyster restoration at Tangier Island, and plant trees for a soil erosion prevention project. They are seeking funds for a set of maps, instructional videos, hand tools, nets and waders for local stream monitoring, and a workshop for the students.

Results: The fund provided money for three trips for students to the Bay Programs, one including Port Isabel. The students gained insightful information about monitoring the Bay's pollution problems and a better understanding of Chesapeake Bay relevance.

Amount granted: \$2,500.00

195 Fort Defiance Rd.  
Fort Defiance, VA 24437  
540-245-5050

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**Fairfax County Public Schools -**  
**Floris Elementary School**  
**Project #: 002-108**

Plan: Floris Elementary School proposes to train students and community members to monitor and improve Horsepen Run and Frying Pan Creek with a greenhouse of native trees and bushes and the producing of a brochure to advertise the project and plantings.

Results: Improving local streams by planting native trees and bushes along the creek buffers was implemented. Brochures and videos created by the students provide visual proof of the project. Money was spent on soil, plants, seeds, and fluorescent lights for future plantings.

Amount granted: \$3,400.00

2708 Centerville Rd.  
Herndon, VA 20171  
703-561-2900

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**Fairfax County Public Schools -  
Instructional Services Division, K-6 Science  
Project #: 002-109**

Plan: FCPS proposes to increase awareness and knowledge of elementary teachers about the Bay's ecosystem based upon the Va. SOL and the Fairfax Program of Studies, disseminate information to elementary educators, and expand environmental education learning activities to include external projects for students, teachers, and other adults.

Results: The two-day seminar increased teacher awareness and knowledge of the Chesapeake Bay's ecosystem, enhanced exposure to resources about environmental topics and concepts, connected with environmental sciences to the Standard of Learning and Fairfax County Program of Studies, and gave opportunity for teacher collaboration and planning that dealt with environmental education.

Amount granted: \$3,194.00

Lacey Instructional Center  
3705 Crest Dr.  
Annandale, VA 22003  
703-846-8625

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**Ocean View Elementary School Ocean View Elementary School  
Project #: 003-005**

Plan: Ocean View Elementary School proposes to use student directed social action and problem solving to restore and conserve a maritime forest and integrate service learning with real work experiences in a natural setting.

Results: The fund provided an opportunity for students and teachers to examine the impact of humans on the Chesapeake Bay. The grant provided all 27 classes with the opportunity to tour the Maritime Forest Sand Hill as they released their insects or gathered soil for analysis. Through observation and investigation of real world experiences in a natural setting, students enhance their mastery of Virginia's Standards of Learning.

Amount granted: \$1,700.00

9501 Mason Creek Rd.  
Norfolk, VA 23503  
757-531-3105

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**John Marshall Soil and Water Conservation District  
(Cedar Run Monitoring Project)  
Project #: 003-008**

Plan: Biology students at Fauquier High School propose to continue their project for a fifth year by providing additional data useful in developing a profile of the stream's health over time. They seek funding for two Bay watershed trips, supplement/replacement materials, and 10 fecal coliform testing kits.

Results: The project was developed to provide a hands-on water quality monitoring project to Ecology students at Fauquier High School in Warrenton, Virginia. Students were taught the skills needed to conduct a water monitoring project, proper water monitoring techniques, and the proper recording of data. In addition, the project provided valuable field experience, involved the students in a timely community issue, and allowed the students to interact with various professionals in the field of environmental science.

Amount granted: \$1,000.00

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186-2849  
540-347-3120, Ext. 3

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**John Marshall Soil and Water Conservation District  
(Marsh Run Monitoring Project)  
Project #: 003-009**

Plan: Students at Liberty High School's AP Biology class will continue for the seventh year to collect data from Marsh Run to assist interested parties in developing a water quality program. Additional data will be useful in determining a profile of the stream's health over time. They seek funding for 10 fecal coliform testing kits and supplemental/replacement materials.

Results: The Marsh Run Monitoring Project was developed to provide a long-term, hands-on water quality monitoring project to Advanced Placement Biology students at Liberty High School. The project provided students with valuable field experience, involved the students in timely community issues, and allowed the students to interact with various professionals in the field of environmental science.

Amount granted: \$500.00

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186-2849  
540-347-3120, Ext. 3

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**Monacan Soil and Water Conservation District**  
**Project #: 003-015**

Plan: As in their 2001 application, Monacan SWCD proposes to use the funds to help defray the costs for Conservation Days held by the 7th graders at Pocahontas Middle School. These costs include transportation, the renting of bathroom facilities, and the purchasing of some visual aids.

Results: The Conservation Days program reached 320 seventh grade students at Powhatan Junior High School. The three day program gave students a hands-on learning experience. They did soil texturing, snake identification and habitat, and conducted both chemical and biological water monitoring.

Amount granted: \$800.00

P.O. Box 66  
Goochland, VA 23063  
804-556-4936

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**Chesapeake Bay Governor's School**  
**(Essex County Schools)**  
**Project #: 003-020**

Plan: The Chesapeake Bay Governor's School in Essex County proposes for their 11th graders a field research project in local waters using scientific methods and the practices of quantitative ecology and a community service project in environmental conservation and restoration.

Results: Students at the school began preparations for their field research project that culminated in their first inaugural science symposium. The first phase developed lab skills and basic principles of writing a research paper. The second phase developed a research proposal, specified research, and the collection of data. As a result of the fund, students gained recognition for their commitment to improving the environment and some papers were presented with awards.

Amount granted: \$2,010.00

P.O. Box 756  
Tappahannock, VA 22560  
804-443-0267

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**Chincoteague Elementary School  
Conservation Club  
Project #: 003-021**

Plan: Chincoteague Elementary School Conservation Club requests funds to assist in the establishment of an outdoor classroom, which would be located adjacent to the designated wetland site on the school grounds.

Results: The fund provided an outdoor environmental study area for the students of Chincoteague Elementary School. With community organizations, local experts, and trained faculty, an outdoor hands-on learning experience was provided for the students.

Amount granted: \$2,995.50

6078 Hallie Whealton Smith Dr.  
Chincoteague, VA 23336  
757-336-5545

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**Deer Park Elementary School  
Project #: 003-029**

Plan: Deer Park Elementary seeks funding to purchase wetland plants to be placed around the retention pond located on the new access road leading to the school.

Results: The funds were used for the purchase of plants in and around a filtration pond adjacent to the school. Students learned about rain gardens to slow water runoff, planting to prevent erosion, and native plants and wildlife.

Amount granted: \$5,000.00

11541 Jefferson Ave.  
Newport News, VA 23601  
757-591-7470



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**Carver Elementary School**  
**Project #: 003-086**

Plan: Carver Elementary School proposes to establish a useable courtyard for outdoor learning to correlate with science, math, and reading. They seek funds for plant life, pond/lifecycle, topsoil, mulch, and fertilizer.

Results: The fund supported an Outdoor Learning Laboratory which included a pond, flower gardens, vegetable gardens, a hummingbird butterfly garden, and reading sanctuary. The students have furthered their understanding of the Virginia SOL in Science, Math, Social Studies, Reading, and Writing. The lab has allowed students firsthand experience in the plant cycle.

Amount granted: \$2,925.00

6160 Jefferson Ave.  
Newport News, VA 23605  
757-247-5447

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**Piedmont Soil & Water Conservation District**  
**(Outdoor Classroom)**  
**Project #: 003-111**

Plan: Piedmont SWCD proposes to bring the "outdoors" into Amelia County Elementary School through the construction of a working stream model in the school's outdoor courtyard. This model will provide a hands-on education in water quality instruction.

Results: The Aquatic Lab at Amelia County Elementary School has become a model for other schools in the Piedmont SWCD to provide "hands-on" investigative science learning for students in elementary and middle schools. The lab reinforces Standards of Learning, investigative science techniques, and a meaningful appreciation for nature and water quality.

Amount granted: \$835.00

100-B Dominion Dr.  
Farmville, VA 23901  
804-392-3782

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**Pearson's Corner Elementary School**  
**Project #: 003-119**

Plan: Pearson's Corner 5th graders will participate in a James River boat trip and "Bay Grasses" program, which will increase their awareness and knowledge of environmental stewardship. They seek funding to create a mural and PowerPoint presentation, compose music, and plant and grow "Bay Grasses."

Results: The fund helped pay transportation costs to plant plants on the York River at York River State Park in Croaker, Virginia, purchased garden equipment, purchased additional books for the library, and purchased "Bare Books" which were used by fifth graders to write of their experiences.

Amount granted: \$1,400.00

8290 New Ashcake Rd.  
Mechanicsville, VA 23116  
804-730-3302

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**Highland School**  
**Project #: 004-014**

Plan: Highland School proposes for their "Hawks Get Wet" project to involve science classes in improving their local watershed by converting retention ponds into active wetlands. Local businesses and government agencies are helping Highland to create an environmental partnership that reduces nonpoint source run-off into the Bay. The classes will also create biotic and abiotic inventories to compare with the retention ponds.

Results: The fund provided students in grades 1-12 at Highland with the funds to participate in the "Hawks Get Wet" program. The restoration of the retention pond at the school was finished.

Amount granted: \$5,000.00

597 Broadview Ave.  
Warrenton, VA 20186  
540-347-1221

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**Ocean View Maritime School  
(Elementary)  
Project #: 004-018**

Plan: Ocean View Maritime School proposes for their "airshed project" to use student directed social action and problem solving to compare air quality between their maritime forest, school yard, oyster float, and at the Bay and integrate service learning with real work experiences in a natural setting.

Results: The grant helped to maintain and expand Service Learning activities for the school. Funding for bus transportation made it possible for fifth grade Maritime Rangers to give tours of the school's Maritime Forest Sand Hill conservation area to students from five different schools and tours to representatives from kindergarten through fifth grade. The students conducted tours for approximately 500 students, sharing their expertise in ecology, and raising awareness of the importance of a maritime forest in the Chesapeake Bay watershed.

Amount granted: \$19,780.00

9501 Mason Creek Rd.  
Norfolk, VA 23503  
757-531-3105

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**Rockbridge County Public Schools  
Project #: 004-022**

Plan: RCPS, in partnership with the Boxerwood Education Foundation, proposes an environmental project on Bay Watersheds for three 1st grade classes at Natural Bridge Elementary School and six 6th grade classes at Maury River Middle School. They seek funding for the Boxerwood activity fees of \$300 per day for 12 days, which includes a specialist, materials, supplies, and use of the Boxerwood site.

Results: The fund sponsored sixth grade students outdoor education experiences by Boxerwood Nature Center. Students planted over 800 native plants, learned about erosion control, and several restoration projects of planting grass along the trail.

Amount granted: \$3,600.00

1972 Big Spring Dr.  
Lexington, VA 24450  
540-463-7386

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**Grymes Memorial School**  
**Project #: 004-027**

Plan: GMS is requesting funds for 28 students in the 7th and 8th grades to participate in a three-day field trip to the Bay's Karen Noonan Center.

Results: The grant allowed 17 seventh grade students (and four adult chaperones) to participate in a three-day field trip to the Chesapeake Bay Foundation's Karen Noonan Center on Bishops Head in Dorchester County, Maryland. It also provided funding for the sixth grade to canoe the Rapidan River with two Chesapeake Bay Foundation Guides. The students collected water samples and discussed nitrogen enrichment and the impact of farming, runoff, and pollution on the watershed. The knowledge gained in the classroom, paired with the experience of these trips, allowed the graduates of Grymes Memorial School to have a solid understanding of the Chesapeake Bay watershed and issues affecting its health and how they can be a part of the solution.

Amount granted: \$2,660.00

13775 Spicer's Mill Rd.  
Orange, VA 22960  
540-672-1010

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**Chesapeake Bay Governor's School for Marine & Environmental Science**  
**Project #: 004-028**

Plan: CBGS proposes an extended educational unit on Fisheries Science and Management, with particular focus on fisheries of the Bay and east coast. The learning activities will be to identify "unit stocks" for the management and conservation of fish populations, monitor fish and shellfish populations, and apply their findings through various classroom projects.

Results: As a result of this grant, students participated in one of a series of field studies of the Lower Piankatank River and Chesapeake Bay aboard the Miss Nan, a workboat operating out of Deltaville. They conducted both abiotic and biotic sampling in order to develop an understanding of Chesapeake Fisheries and the ecosystem that supports them. Students have learned a great deal about the Chesapeake ecosystem and its historical fisheries, as well as biology and ecology. The most important lesson was conservation of natural resources and preservation of the habitats and water quality upon which the welfare of the species is dependent.

Amount granted: \$9,462.00

P.O. Box 756  
Tappahannock, VA 22560  
804-333-1306

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**Teenage Parenting Programs of Arlington Public Schools**

**Project: #004-039**

Plan: TPP seeks funding for their "From the Baby's Bath to the Bay" project. They propose to show young mothers how their community is linked to the Bay watershed, provide field trips in which they use scientific equipment, take measurements, draw conclusions, train the mothers to share their learning experiences in both English and Spanish to their children, and demonstrate a variety of options available in the Bay.

Results: Young mothers in the Teenage Parenting Program studied several aspects of the Chesapeake Bay watershed and Four Mile Run stream subwatershed through the *From the Baby's Bath to the Bay* project. They performed water quality testing of Four Mile Run stream, visited the local wastewater treatment plant, did research on a Smithsonian research cruise, and chronicled their experiences in a field book. *From the Baby's Bath to the Bay* linked teenage mothers and their children more closely to the Chesapeake Bay and opened their eyes to opportunities.

Amount granted: \$3,135.00

3205 South 2nd St.  
Arlington, VA 22204  
703-875-944

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**Manassas Park High School Beta Club**

**Project #: 004-042**

Plan: The Beta Club proposes to participate in the stream monitoring project following the Save Our Streams protocol outlined by the Isaac Walton League of Virginia. Volunteer students and a teacher will monitor a minimum of three stream locations twice a year in order to determine physical and biotic integrity of the aquatic habitat.

Results: The Beta Club has sampled three streams in Prince William County during the fall and spring seasons. Biotic and chemical analyses were performed per the Virginia Save Our Streams protocol. Thanks to funding provided by CBRF, several students have learned the processes of water quality sampling and analyses, how to identify stream invertebrates, and how a watershed affects the biotic and abiotic integrity of a water system. The fund supported the purchase of equipment to perform the sampling and analyses.

Amount granted: \$1,900.00

8200 Euclid Ave.  
Manassas Park, VA 20111-2394  
703-361-9131

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**Manchester Middle School**  
**Project#: 004-045**

Plan: Manchester Middle School seeks funding for 25 students in 8th grade integrated science to travel to a Bay station for three days. The activities at the station will include the analysis of Bay water, surveys of crab and oyster populations, and introductions to marsh and beach ecology.

Results: Twenty five Manchester Middle School eighth grade students, one teacher, and a parent chaperone visited the Chesapeake Bay Foundation's Port Isobel Field Station from November 13 to 15, 2004, and the nearby town of Tangier. Students learned marsh and beach ecology and raked an eelgrass bed where they caught small fish and invertebrates. As a result of the grant, students from Manchester Middle School were able to participate in a unique watershed experience.

Amount granted: \$3,300.00

7401 Hull Street Rd.  
Richmond, VA 23235  
804-674-1385

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**Virginia Institute of Marine Science**  
**College of William and Mary - Sea Grant**  
**Marine Advisory Program**  
**Project #: 004-050**

Plan: As in their 2001 and 2003 grant applications, the Sea Grant Marine Advisory Program at VIMS proposes to involve marina staff in educating boaters about ways they can control petroleum pollution with better boating practices. They are requesting funds for 200 No Spill Kits to marina operators for use at their fuel docks, a laptop, travel, and lodging.

Results: A total of 249 Davis "No-Spill Kits" were distributed free of charge to 59 marinas in Virginia that sell fuel at their facilities. Each kit included a cover letter explaining the use of the kits and a request that each marina keep a record (using the form supplied) of the amount of fuel recovered with the use of the device. Effectiveness will be determined by the number of forms returned.

Amount granted: \$8,500.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7768

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**Virginia Institute of Marine Science  
College of William and Mary - Sea Grant  
Marine Advisory Program  
(Outlook on Ocean Science)  
Project #: 004-052**

Plan: As in their 2000, 2001, 2002, and 2003 grant applications, the Sea Grant Marine Advisory Program at VIMS proposes to further expand their "Outlook on Ocean Science" program for high school students to include a 90-minute, hands-on program emphasizing the importance of submerged aquatic vegetation to the Bay ecosystem.

Results: The fund enabled VIMS to deliver marine science presentations to schools throughout the targeted areas of Kilmarnock, south to Virginia Beach and Chesapeake, and west New Kent and Richmond. Eighty-eight percent of the program requests were for Coastal Storms, six percent for submerged aquatic vegetation, and six percent for marine career. The CBRF award put students in direct contact with enthusiastic young scientists who are engaged in research important to the Chesapeake Bay. It provided an excellent opportunity for VIMS graduate students to gain teaching experience and inspire young people to value and protect the Bay ecosystem. The fund enabled high quality science education to reach the leaders of the future.

Amount granted: \$4,860.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7735

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**Cooper Elementary Magnet School for Technology  
Project #: 004-056**

Plan: Cooper Elementary proposes the involvement of students, teachers, and families in science exploration, planning, and implementation of environmental education projects to increase their SOL scores in science.

Results: The teachers in grades 3-5 reported an increase in student performance at the end of nine-week science tests and third and fifth grade teachers reported increased science SOL scores at the end of the school year. All teachers agreed that student participation in this Chesapeake Bay project increased student interest in all the sciences they were studying. Students performed better on application of scientific investigation skill and questions about animal habitats and ecosystems.

Amount granted: \$2,409.00

200 Marcella Rd.  
Hampton, VA 23666  
757-825-4645

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**Gloucester High School**  
**Project#: 004-075**

Plan: Gloucester High Oceanography and Environmental Studies classes proposes to expand their science curricular field studies for oyster restoration activities in local tributaries. They seek funds for field equipment, water quality test kits, transportation to off-site culture facilities and restoration areas, and materials to design and conduct instructional workshops.

Results: In order to provide authentic science experiences for High School students enrolled in Oceanography and Environmental Studies, oyster restoration activities were conducted. Students participated in onsite field monitoring of oyster floats in York River tributaries. Monitoring equipment was acquired and utilized in field activities to assess water quality of float locations. Students were charged with documenting their field experiences in digital photographs, producing display boards, and other related props that they used in lessons that they designed and presented to middle school students.

Amount granted: \$2,000.00

6680 Short Lane  
Gloucester, VA 23601  
804-693-2526

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**Lancaster Middle School**  
**Project #: 004-088**

Plan: Lancaster Middle School seeks funds to educate students on the importance of planting and saving trees along the Bay. Each student will receive a tree to raise at home and during the last month of school the students will bring their tree to school to plant on the Bay shore.

Results: The fund supported the planting of trees along the Chesapeake Bay shoreline in order to minimize soil erosion and provide improved wildlife habitats. The middle school students gained an appreciation of the natural beauty of the Bay and the responsibility of protecting the fragile ecosystem for future generations. A final bonus was the realization of savings that allowed the printing of a brochure that detailed the project and provided information about other natural Bay habitats to local citizens.

Amount granted: \$2,000.00

191 School St.  
Kilmarnock, VA 22482  
804-435-1681



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**Thomas Nelson Community College**  
**Project #: 004-090**

Plan: TNCC proposes to organize and lead four one-day field experiences for 20-25 City of Hampton high school students, 80-100 students total, to the Grandview Nature Preserve to familiarize students with the physical and biological structure of the beach system and reinforce the basic laws of ecology.

Results: The CBRF provided the college with funds to develop field activities and purchase equipment and supplies to conduct field activities in Chesapeake Bay waters. The funds purchased two 50' seine nets, Chesapeake Bay field guides, EPA publications on the Bay, oxygen kits, refractometers, secchi discs, and field carts. The trip participants were from high schools in the area.

Amount granted: \$3,500.00

P.O. Box 9407  
Hampton, VA 23670-0407  
757-825-3676

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**Cougar Elementary School**  
**Project #: 004-099**

Plan: Cougar Elementary proposes to make the community more aware of environmental issues, increase the reading abilities of their students through integrating reading into science, and hand-on activities to help ESL students comprehend science concepts more easily. They seek funding for an aquarium, books, and the production of plays with puppets as a way to bring the Bay to their students and reinforce environmental SOLs.

Results: The fund provided for the purchase of an aquarium, puppets, and books to support the curriculum. A variety of new ideas were incorporated into the science program through this grant. There were three main accomplishments: the community was made aware of environmental issues, the increased reading abilities of the students, and hands-on activities to help students comprehend science concepts.

Amount granted: \$2,000.00

9330 Brandon St.  
Manassas Park, VA 20111  
703-392-1317

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**Alliance for the Chesapeake Bay (S.E.E.D.S.)**  
**Project #: 004-0100**

Plan: As in their 2002 grant application, the Alliance seeks continued funding for the Stewardship and Environmental Education by Digging in Soil (S.E.E.D.S.) program. Their goal is to actively engage students, faculty, and community members from four chosen Va. elementary or middle schools in developing an interactive schoolyard habitat with BayScaping.

Results: As a result of the funds for the Alliance for the Chesapeake Bay's S.E.E.D.S. program, Stewardship and Environmental Education by Digging in Soil, *Interactive Schoolyard Habitats with BayScaping*, the Alliance partnered with J. B. Fisher Elementary School in the City of Richmond to create a dynamic outdoor classroom that will continue to serve the students and the surrounding community for years to come. The outdoor classroom has been an opportunity for teachers and students to explore the expanded classroom of nature and the myriad daily learning opportunities offered. The interactive schoolyard habitat offers a new type of child-centered education based on environmental education, community involvement, and individual stewardship and empowerment.

Amount granted:       \$14,000.00

P.O. Box 1981  
Richmond, VA 23219  
775-0951

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**Grymes Memorial School**  
**Project #: 005-004**

**Plan:** As in their 2004 grant application, GMS is requesting funds for 18 students in the 7th grade to participate in a three-day field trip to the Bay's Karen Noonan Center. New for this grant, they also seek funding for the 6th graders to participate in a one-day canoe trip on the Rapidan River and for the 6th and 7th graders to create a living ecosystem model.

**Results:** The grant enabled 17 eighth grade students to participate in a three-day field trip to the Chesapeake Bay Foundation's Smith Island Facility. They toured the island, learned about its culture and history by interviewing local watermen, and writing journals. Hands-on studies included collecting water quality data, observing wildlife, and collecting macroinvertebrates. In the classroom, the eighth graders organized the data collected on Smith Island for analysis. The grant also enabled 18 seventh graders to participate in a Chesapeake Bay Foundation one-day trip. They learned about man-made lakes and natural lakes, the ecosystem, and inhabitants of the lake. The studies provided a better understanding of human impact on the Chesapeake Bay and what can be done to make their impact a positive one.

**Amount granted:**        \$1,700.00

13775 Spicer's Mill Rd.  
Orange, VA 22960  
540-672-1010

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**Poquoson High School**  
**Project #: 005-007**

Plan: Poquoson High School seeks funding for 84 Ecology and Advanced Placement Biology students to increase their knowledge and awareness about the Bay by participating in the Chesapeake Bay Ecology Science Safari sponsored by the Virginia Living Museum.

Results: The course culminated with a field trip to the Chesapeake Bay through the Virginia Living Museum in order to enhance understanding of the region's ecology. The excursion allowed students to investigate representative flora and fauna and understand the ecological succession of the Chesapeake Bay watershed. Students compared and contrasted conditions in the littoral, limnetic, and profundal zones. They took measurements of temperature and dissolved oxygen at various sites and calculated the amount of oxygen produced at those sites. This gave students a greater understanding of the effects of pollutants on Chesapeake Bay ecology.

Amount granted: \$2,460.00

51 Odd Rd.  
Poquoson, VA 23662  
757-868-7123

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**Natural Bridge Soil and Water Conservation District**  
**Project #: 005-009**

Plan: As in their 2002, 2003, and 2004 grant applications, Natural Bridge SWCD proposes to send 12 local students and teachers in Rockbridge County to attend a six-day workshop during the summer of 2005 at one of the Bay's island education centers.

Results: The grant was requested for scholarships to send 12 local high school students from within the County of Rockbridge to attend a workshop during the summer of 2005 at one of the Chesapeake Bay Foundation's island education centers. Since only four students were signed up for the workshop by mid-June, a separate trip from Rockbridge was no longer possible. With assistance provided by Chesapeake Bay Foundation Trip Leaders, the trip from Rockbridge was combined with a trip for the Spotsylvania County Governor's School. The goals were accomplished. Some funds were returned as a result of a shortage of students for the original planned workshop.

Amount granted: \$4,000.00

40 Magnolia Sq. Way, Suite 5  
Lexington, VA 24450  
540-463-7124, Ext. 101

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**Cougar Elementary School**  
**Project #: 005-016**

Plan: Due to many field trips being eliminated, Cougar proposes to bring science into the classroom for 800 students through visual aids. They seek funds for animal classifying cards, a flower model, weather vanes, a rain gauge, illuminated orbiters, and large compasses.

Results: The fund helped the school purchase visual aids for hands-on learning. The purchases included an illuminated sun and earth to explain the difference between rotation and revolution, a large rain gauge, thermometer, weather vane for weather assessment, and three life cycle puzzles to show the growth of butterflies, frogs, and plants. The visual aids helped them to visualize concepts and review the concepts after the teaching unit was finished.

Amount granted: \$400.00

9330 Brandon St.  
Manassas Park, VA 20111  
703-392-1317

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**John Marshall Soil and Water Conservation District -**  
**Cedar Run/Marsh Run Monitoring Project**  
**Project #: 005-018**

Plan: Biology students at Fauquier and Liberty High Schools propose to continue to collect data from Cedar Run and Marsh Run to assist interested parties in developing a water quality program. Additional data will be useful in determining a profile of the two stream's health over time. They seek funding for 15 fecal coliform testing kits and supplemental/replacement materials.

Results: The project was developed to provide a hands-on water quality monitoring project for Biology/Ecology students at Fauquier High School in Warrenton and Liberty High School in Bealeton, Va. In year seven of the project, a total of 210 students were involved. The students were taught the skills needed to conduct a water monitoring project: proper water monitoring techniques and proper recording of data. The project provided valuable field experience, involved the students in a timely community issue, and allowed the students to interact with various professionals in the field of environmental science.

Amount granted: \$969.50

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186-2849  
540-347-3120, Ext. 3

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**Henricopolis Soil and Water Conservation District -  
River's Edge Elementary School  
Project #: 005-020**

Plan: Henricopolis SWCD proposes to restore a forested buffer along the Chickahominy River, as well as the design and construction of a Wetland Learning Laboratory on the site owned by River's Edge Elementary School. The project would include buffer planting, trails, testing sites, bridges, and observation/discussion areas.

Results: The project was undertaken as a wetland restoration project, while designing and constructing amenities that would make the site a useful educational resource for both the students and the community. The first element of this project involved the installation of a boardwalk trail extending into the wetland. Nesting boxes and bat boxes were installed in the wetlands area to attract wildlife. Native plants were established as a wetland replanting project. A large interpretative sign was designed and installed at the entrance to the boardwalk as an educational tool for teachers and students and members of the community. Lastly, a watershed educational curriculum was provided to the school to be utilized by any teacher in the school. "The Watershed Tour" presents the following concepts: water is a vital resource, everyone lives in a watershed and interacts with the watershed, and human and natural influences affect streams and wetlands.

Amount granted:       \$6,500.00

8600 Dixon Powers Dr.  
Richmond, VA 23228  
804-501-5175

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**Madison County High School**  
**Project #: 005-023**

Plan: Madison County High proposes researching through hands on, inquiry, and lab-based approaches the environmental health of Madison's wood and land cover, watershed, and wildlife populations and then comparing this to the impact of all the Commonwealth's counties on the Bay. The students will also prepare an improvement and action plan for the county based on the research and take a field trip to the Eastern Shore of Virginia.

Results: Junior and senior level environmental classes benefited from the grant in a number of ways. Over 255 students have participated in local stream, pond, and school water testing and evaluation. The overall goal was to ascertain the health of each water system tested and to suggest improvements based on students' results.

Amount granted: \$6,046.00

68 Mountaineer Lane  
Madison, VA 22727  
540-948-3785

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**Rockbridge County Schools Maury River Middle School**  
**Project #: 005-034**

Plan: As in their 2004 grant application, RCPS, in partnership with the Boxerwood Education Foundation, proposes an environmental project on Bay watersheds for three 1st grade classes at Natural Bridge Elementary School and six 6th grade classes at Maury River Middle School. They seek funding for the Boxerwood activity fees of \$300 per day for 12 days, which includes a specialist, materials, supplies, and use of the Boxerwood site.

Results: No written final report, only financial statement.

Amount granted: \$3,600.00

600 Waddell St.  
Lexington, VA 24450  
540-463-3129

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**Chesapeake Bay Governor's School for Marine & Environmental Science  
Project #: 005-049**

Plan: CBGS seeks funds for a one-week teacher workshop taught by the faculty to assist in developing curriculum that will integrate Marine & Environmental Science into the regular middle and high school curriculum. The workshop will be conducted at RCC/Warsaw.

Results: Twenty educators from surrounding school divisions met at St. Margaret's School for a one week teacher workshop. The goal was for teachers to choose an environmental issue that concerns the Chesapeake Bay and its watershed and to create a unit with another teacher from their school across curriculum that will supplement and enhance the integrated study of Marine & Environmental Science. Teachers involved left the workshop not only with tangible resources, but with an abundance of knowledge about the Chesapeake Bay watershed.

Amount granted: \$18,000.00

P.O. Box 756  
Tappahannock, VA 22560  
804-443-0267

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**Turner Ashby High School - Ecology II Class  
Project #: 005-063**

Plan: As in their 1997 grant application, Turner Ashby High School proposes to improve the quality of Cooks Creek and create an educational area in Dayton that will provide citizens with an example of what can be done to stabilize streambanks. They seek funding for riparian buffers that will involve planting shrubs, small trees, and hydrophytes.

Results: The Cooks Creek project, conducted by the Turner Ashby FFA Ecology II class, resulted in nearly 500 feet of streambank restoration using water loving plant species, trees, and shrubs. More than 700 plants were installed and maintained at the Cargill site to protect water quality. The riparian buffer created protects water quality and beautifies the site where Cooks Creek runs through the plant property and the site serves as an educational site for the local community, students, and Cargill employees.

Amount granted: \$4,673.00

800 North Main Street  
Bridgewater, VA 22812  
540-828-2008



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**B. C. Charles Elementary School**  
**Project #: 005-068**

Plan: B. C. Charles Elementary proposes for their 5th grade students oyster gardening and research to connect the students with the Bay and its vital importance to their community. The students will grow oysters in floats placed in a marina on the James River; collect, record, and analyze data each month; identify and research the impact of the Bay watershed on the Bay; research history and the role of oysters in the Bay; research oyster habitats; plant oysters in an oyster sanctuary on the York River; and participate in a culminating activity, an "Oyster Fair" for their school and community.

Results: The project consisted of growing approximately 2,000 oysters at Leeward Marina on the James River, collection and recording of data (measuring oyster growth, salinity, temperature, and water clarity) throughout the year, and planting the oysters at an oyster sanctuary in the York River. Each student did classroom research on the Chesapeake Bay oyster, its habitat, and its role in cleaning the Chesapeake Bay. They researched estuaries in the Bay, illustrated an informational book, or completed a PowerPoint presentation to share with the school community. The goal was for each of the students to become stewards of the Chesapeake Bay in conserving natural resources and promoting environmental literacy.

Amount granted: \$600.00

701 Menchville Rd.  
Newport News, VA 23602  
757-886-7750

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**James River High School**  
**Project #: 005-077**

Plan: James River High School students propose to establish and maintain a natural riparian zone that will serve as an outdoor classroom to show how headwaters of a river with good water quality affects the water quality downstream. They seek funding for engraved signs with stakes, binders for self-guided tours, and clippers.

Results: As a result of this project, the students published an Outdoor Classroom Manual. It is an ongoing project and will be finished at the end of the year. The students used Global Positioning Systems (GPS) and topographic maps to map the area of the outdoor classroom. Next they identified the trees and shrubs in the area to establish their Outdoor Classroom Manual.

Amount granted: \$1,000.00

9906 Springwood Rd.  
Buchanan, VA 24066  
540-254-1121

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**Rockbridge County Public Schools**  
**Fairfield Elementary School**  
**Project #: 006-013**

Plan: RCPS proposes for their "Save Our Surroundings" project at Fairfield Elementary School to create an environmental onsite classroom that will include a native nature trail, a mini-watershed, examples of erosion, and an outdoor lab, all of which will have a theme of preservation of the environment on the Bay.

Results: Goals of the grant project were to increase student knowledge of watersheds and the environment. The SOLs for fourth grade science were also incorporated into this grant. Future goals include establishing a native nature trail and outdoor classroom. The field section of the trail has been planted with 300 white pines during the Arbor Day Celebration.

Amount granted: \$5,050.00

20 Fairfield Rd.  
P.O. Box 162  
Fairfield, VA 24435  
540-348-5202

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**Chesapeake Bay Governor's School for Marine & Environmental Science**  
**Project #: 006-033**

Plan: As in their 2005 grant application, CBGS seeks funds for a one-week teacher workshop taught by the faculty to assist in developing curriculum that will integrate Marine & Environmental Science into the regular middle and high school curriculum. The workshop will be conducted at RCC/Warsaw.

Results: The grant provided funds for a one-week teacher workshop to assist in developing curriculum that will integrate Marine & Environmental Science into the regular middle and high school curriculum.

Amount granted: \$15,000.00

P.O. Box 756  
Tappahannock, VA 22560  
804-443-0267

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**Grymes Memorial School**  
**Project #: 006-035**

Plan: As in their 2004 and 2005 grant applications, GMS is requesting funds for 18 students in the 8th grade to participate in a three-day field trip to the Bay's Karen Noonan Center, 6th graders to participate in a one-day canoe trip on the Rapidan River, and for the 6th and 7th graders to create a living ecosystem model.

Results: The grant enabled 16 eighth grade students to participate in a three-day field trip to the Chesapeake Bay Foundation's Karen Noonan Center at Bishops Head in Dorchester County, Maryland. They spent three days learning about the estuary, its habitats, plant and animal life, and environmental challenges. Upon returning to the classroom, the eighth graders organized the data collected for analysis and presented a full lab report to the class.

Amount granted: \$2,060.00

13775 Spicer's Mill Rd.  
Orange, VA 22960  
540-672-1010

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**Page County Public Schools**  
**Project #: 006-046**

Plan: Page County High School seeks funding for scientific equipment and technology that will be used in field experiences to explore the Shenandoah River and how it impacts the Bay watershed.

Results: Two hundred eighty-five high school students from Luray High School initiated a water monitoring project to analyze the local waterways that are part of the Chesapeake Bay watershed. The students began to gather data on the water quality by testing the water in the Hawksbill Creek that runs into the South Fork of the Shenandoah River. The students also tested the ground water at Lewis Springs in the Shenandoah National Park, which is the source of the Hawksbill Creek. The curricula will help the students research the watershed history, plot the data, investigate the soil, and write presentations to share with the community and the other agencies that are interested in the Chesapeake Bay watershed.

Amount granted: \$4,800.00

735 W. Main St.  
Luray, VA 22835  
540-743-6533

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**Massanutten Regional Governor's School**  
**Project #: 006-056**

Plan: MRGS proposes to develop and implement a targeted watershed monitoring investigation and restoration program and complete detailed GIS maps. The results will be presented to the Shenandoah County Water Resources Advisory Board for possible use and will also be used as a baseline for future watershed investigations.

Results: The school purchased six water quality monitoring kits to test water quality on the North Fork of the Shenandoah River and two water quality samplers for collecting water from bridges during the winter months.

Amount granted: \$2,650.00

6375 South Main St.  
Mt. Jackson, VA 22842  
540-477-3226

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**Pearson's Corner Elementary**  
**Project #: 006-058**

Plan: Pearson's Corner students will focus on three outdoor classrooms: an aquatic environment in the "Dragonfly Pond," an agricultural classroom in "Pearson's Patch," and a Va. native plant habitat in the "Chesapeake Bay Garden." Their goals include developing skills necessary to take positive action in the community, maintaining the pond habitat and gardens, and growing worms in the classroom using recycled plant materials and food waste from the cafeteria.

Results: The fund was spent on student field trips on the Chesapeake Bay, student field trip/service project at York River State Park, art project mosaic and art supplies, music materials, and a pottery project. All goals and objectives were met and the outcome of the grant will be presented to VCU Environmental Faculty and students participating in their environmental class, "Water, Woods and Wildlife."

Amount granted: \$4,175.00

8290 New Ashcake Rd.  
Mechanicsville, VA 23116  
804-723-3660

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**Hamilton-Holmes Middle School**  
**(Mattaponi & Pamunkey Rivers Association)**  
**Project #: 006-059**

Plan: Hamilton-Holmes Middle School and MPRA have collected resource materials and hands-on activities to support watershed education and Bay restoration, including CBF Grasses in Classes, shad tanks, Enviroscape model, Project Wet activities, and water monitoring on the rivers. With these resource materials, they seek funding for a regional teacher workshop to be held at the school and a canoe trip on the Mattaponi or Pamunkey River.

Results: The Mattaponi and Pamunkey Rivers Association and Hamilton-Holmes Middle School partnered on a teacher workshop as part of MPRA's Schools of Shad project. Eighteen teachers and several natural resource agency representatives attended an all day workshop called *Watershed Connections: Taking our Rivers to the Classroom*.

Amount granted: \$1,000.00

934 Garnett's Mill Lane  
Walkerton, VA 23177  
804-769-2968

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**Oyster Reef Keepers of Virginia, Inc.**  
**Project #: 006-061**

Plan: As in their 03-05 grant applications, ORKV seeks funding for 400,000 oysters and materials for their "Schools Restoring Oysters to the Chesapeake" program and to train 45 teachers to fully integrate the meaningful field component of the program into their classroom through their Oyster Restoration Training Institute.

Results: With the grant funds, 400,000 baby oysters were distributed to 150 Virginia school teachers and their 7,500 students. The schools raised and studied the oysters throughout the school year. Schools transplanted their oysters to sanctuary reefs in Virginia tributaries, where oysters will spawn and provide offspring to revitalize future oyster generations in the Bay. Grant funds were also used to train 47 teachers through the Oyster Restoration Training Institute. The S-ROC (Schools Restoring Oyster to the Chesapeake) program instructs teachers about oysters and to integrate this component into their curriculum.

Amount granted: \$15,500.00

P.O. Box 55201  
Virginia Beach, VA 23471  
757-460-1200

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**Friends of Chesterfield's Riverfront**  
**Project #: 006-066**

Plan: Friends proposes to correlate water quality with the quality of riparian buffers and urban forestry issues at Manchester High and Bailey Bridge Middle Schools. Friends will involve citizens and students in implementing a riparian buffer restoration on Swift Creek, restore over 100 ft. of buffer along the creek and a newly constructed pump station adjacent to the schools, plant a BayScape and form a high school group to monitor the planted areas, community outreach, and promotion of the project and the Bay license plate.

Results: The grant furthered student and citizen understanding and involvement of water quality through the restoration of a riparian buffer along Swift Creek in Chesterfield County. The riparian restoration was held over a three day period, which 60 students, 22 adults, 10 children, and a Boy Scout troop of 20 volunteered. Over 1,500 trees and shrubs were planted by volunteers in the restored area.

Amount granted: \$5,000.00

P.O. Box 2158  
Chesterfield, VA 23832  
804-796-1703

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**Dearington Elementary School for Innovation**  
**Project #: 007-012**

Plan: DESI proposes to provide watershed preservation awareness to their students by teaching the interrelationships of tributary streams in their area with the James River and the Bay, conducting field studies to test water quality and apply same to an interactive watershed model, creating and attaching 75 colorful rain barrels to alleviate some of the nonpoint source pollution in the area, planting rain gardens on the school grounds, and taking several field trips.

Results: The students learned about watershed, water pollution causes, how to determine water purity, and problems involving water purity in the Lynchburg area. The SOL driven studies of the oceans showed how water bodies are connected and that salinity is good for some organisms yet deadly for others. A trip to Jamestown and a rain barrel project also enhanced their environmental knowledge.

Amount granted: \$7,000.00

210 Smyth St.  
Lynchburg, VA 24501-1539  
434-522-3757

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**Old Dominion University Research Foundation**  
**Project #: 007-031**

Plan: ODU Research Foundation proposes to develop, implement, and disseminate a curriculum that is inquiry based and centered around a year-long theme of "My Place in the Environment" to Pre-K through K children. The theme will educate teachers and children about the environment and how to care for it, improve appreciation of wetlands and habitat in Hampton Roads, and encourage involvement in environmental behaviors that promote stewardship of the environment at school and home.

Results: "Building Environmental Stewardship into Pre-Kindergarten and Kindergarten Curriculum" has benefited pre-kindergarten and kindergarten children and their families, undergraduate and graduate education students, and faculty of Old Dominion University. Thirty-two pre-kindergarten and kindergarten children have been immersed in a year study of the Chesapeake Bay and its habitants through hands-on cognitive activities and lessons.

Amount granted: \$11,000.00

45th Street and Hampton Blvd.  
Norfolk, VA 23529  
757-683-5465

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**Rockbridge County Public Schools  
Fairfield Elementary School  
Project #: 007-033**

Plan: As in their 2006 grant application, RCPS proposes to continue their "Save Our Surroundings" project at Fairfield Elementary School by expanding their environmental onsite classroom, which includes a native nature trail, a mini-watershed, an outdoor lab, and studies of erosion. The Project's focus will also continue to be on the preservation of the environment on the Bay.

Results: Primary goal of the grant was to increase student knowledge of watersheds and the environment in general. The Wildlife Center of Virginia and Douthat State Park provided lessons on watershed protection, native plants, and predator-prey interactions. The nature trail created last year was still an integral part of the project. Preschool, second, third, and fourth grades have used the trail. The year was culminated with an Earth Day Celebration.

Amount granted: \$5,000.00

20 Fairfield Rd.  
P.O. Box 162  
Fairfield, VA 24435  
540-348-5202

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**Chesapeake Bay Governor's School  
Project #: 007-042**

Plan: CBGS proposes to develop a one-week teacher workshop to assist in the enhancement of their 10th grade curriculum that will integrate a survey of the Bay's watershed and tributary system from sea level to its highest elevations. Students will study water quality and native flora and fauna at numerous sites and will also use the GLOBE program, which is an international (111 countries) science data/research organization founded in 1994.

Results: The grant allowed the development and implementation of a foundation program for 10th grade students. This allowed students to develop projects as 11th graders that resulted in 100 percent of the papers accepted into the Virginia Junior Academy of Science, a total of 47 papers. Awards at VJAS resulted in numerous 1-3 place winners, many scholarships including the largest Environmental award of \$16,000. The course continues as a foundation for 11th and 12th graders.

Amount granted: \$5,000.00

P.O. Box 756  
Tappahannock, VA 22560  
804-443-0267



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**Thaxton Elementary School - N.E.E.D. Team**  
**Project #: 007-049**

Plan: As in their 2004 grant application, Thaxton Elementary proposes to establish an arboretum at their school focusing on the correct methods of planting and caring for plants in the James River watershed and Bay and conduct a school-wide energy fair to promote student involvement in techniques for conserving energy and protecting the environment.

Implementation of the fair would further prepare the N.E.E.D. team for participation in the Va. Tech - Association of Energy Professionals Energy Fair in the fall, the Energy Symposium at James Madison University in the spring, and the National Energy Conference and Award Program in Washington, D.C. in June 2008.

Results: In an effort to help protect the watershed of the James River and Chesapeake Bay, an arboretum was established on school property with student and parent involvement. The focus was on ways to prevent soil erosion, the correct methods of planting and caring for plants, and organic methods for control of pests instead of chemical pesticides. The students planted many different perennials - trees, shrubs, flowers, and bulbs native to the area. The student involvement and caring for the arboretum instilled an understanding of methods to prevent soil erosion and chemical erosion of the waterways.

Amount granted:       \$4,500.00

1081 Monorail Circle  
Thaxton, VA 24174  
540-586-3821

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**Va. Tech - Virginia Cooperative Extension King and Queen County  
4-H Youth Development  
Project #: 007-057**

Plan: The King and Queen County 4-H proposes for their 4th, 5th, and 6th grade students a one-hour program, six total, to develop an understanding of local estuary systems. The students will learn the life cycle of the shad, explain the relevance of the shad in the food cycle, perform basic water quality tests, explain how water quality affects aquatic life, exhibit awareness of local water quality issues, hold informed conversations debating the issues, and propose possible solutions to local problems.

Results: "Mad About Shad" is an ongoing program in which the students of King William and King and Queen County learn about local environmental issues through the study of shad. The fund continues to support this effort.

Amount granted: \$1,000.00

P.O. Box 65  
175 Courthouse Rd.  
King William, VA 23086  
804-769-4955

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**Booker T. Washington Middle School  
Project #: 007-067**

Plan: As in their 2006 grant application, Booker T. Washington Middle School seeks funding for 30 teachers to go on a field trip for three days to CBF's Port Isobel Island Education Center with transportation and meals included and scientific materials, supplies, and equipment for teacher/student use at their school. New for 2007, they also seek funding for 450 students to spend a day on board the CBF's teaching vessel "Baywatcher" and the maintenance of their marine tanks that the students care for.

Results: The grant was awarded to the school to be used for an educational program with the Chesapeake Bay Foundation to supplement and enhance environmental training for the staff and for materials and supplies to support and maintain the aquatics lab at the school.

Amount granted: \$3,134.00

3700 Chestnut Ave.  
Newport News, VA 23607  
757-928-6860, Ext. 1104

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**Lynchburg College**  
**Project #: 007-072**

Plan: The College proposes to develop a Blackwater Creek Watershed Management Plan based upon the model for development guidelines provided within the DCR's "A Community Water Quality Approach: Local Watershed Management Planning in Virginia." Lynchburg College seeks funding to implement a series of instructional programs designed to engage and educate the students of the college and the citizens of Lynchburg City and Bedford and Campbell Counties regarding the development of the watershed and the effects such development has on Blackwater Creek, College Lane, the James River, and the Bay.

Results: The primary goal of the project was to increase governmental and public involvement in Blackwater Creek/College Lake watershed. The College has been successful in achieving the goals and objectives as they relate to the development of the plan, the dissemination of the plan, the provision of public education related to the plan, and extensive media coverage concerning the effort.

Amount granted: \$4,500.00

1501 Lakeside Dr.  
Lynchburg, VA 24501-3199  
434-544-8545

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**Interstate Commission on the Potomac River Basin**  
**Project #: 007-073**

Plan: As in their 1997, 2000, 2001, and 2006 grant applications, ICPRB proposes to continue with the restoration of the American shad populations to the Rappahannock and Potomac Rivers and enlist approximately 10 northern Va. schools in the effort, which also includes five field trips on their vessel the "Half Shell."

Results: Over 300 elementary and middle school students and eight teachers from five Northern Virginia schools hatched and raised approximately 13,800 American shad fry in their classrooms before releasing them in the Potomac River. This educational effort dovetails with a regionally managed shad restocking program undertaken with the Virginia Department of Game and Inland Fisheries. Under this program, a total of 4.3 million American shad were stocked into the Rappahannock and Potomac Rivers in 2007.

Amount granted: \$12,500.00

51 Monroe St., Suite PE-08  
Rockville, MD 20850  
301-984-1908, Ext. 106

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**Friends of the Occoquan  
Project #: 007-075**

Plan: Similar to their 02-06 grant applications, FOTO proposes to continue to preserve and maintain the Occoquan watershed by conducting four educational watershed presentations, recruit volunteers for a Fall 2006 and Spring 2007 cleanup, promote the Spring 07 Alexandria Earth Day, distribute the "Saving Our Watersheds - Beyond the Occoquan" video to five watershed organizations and five schools in Fairfax County, install three new no-litter bilingual signs in two Prince William Park Authority parks, and prepare 20 Wetland models and distribute to Prince William Schools.

Results: The fund enabled the completion of the Friends' programs: Fall Occoquan Cleanup; one Spring Cleanup; installation of two International/bilingual signs in Lake Ridge Marina, Prince William County; Alexandria and Prince William Earth Day participation; preparation of a 30 second bilingual Public Service Announcement; continuation of their campaign of public education; and awareness of watershed conservation issues.

Amount granted:       \$2,800.00

P.O. Box 1452  
Woodbridge, VA 22195-1452  
703-624-7124

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**Virginia Beach Friends School  
Project #: 007-079**

Plan: VBFS proposes to train teachers to prepare students by providing materials that will either introduce or reinforce environmental concepts, give students opportunities and materials to apply those concepts, and implementation of environmentally beneficial projects. They seek funds for environmental education resources, field trips, materials for investigations and plan implementations, specialty gardens, teacher training, oysters, and a nature trail.

Results: The fund provided materials for microscopes, slide kits and supplies, density kits, and other material for scientific study. Environmental field trips, oyster gardening, and establishing a rain garden were other areas for fund usage.

Amount granted:       \$5,000.00

1537 Laskin Rd.  
Virginia Beach, VA 23451  
757-428-7534, Ext. 703

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**Rodney Thompson Middle School**  
**Project #: 007-085**

Plan: Rodney Thompson proposes to discuss their environmental concerns, in conjunction with learning physics and chemistry, by working on projects in which they will set up a hypothesis, research, collect data, analyze the data conclusions, and disseminate the data to the public. The students will share data with students at their sister school in Delaware via e-mail and cameras and will travel to the school in June 2008 for an environmental conference. The teachers will also attend a "Train the Trainers" session so that in the future data can be directly added to the DEQ database instead of paying the \$325.00 yearly annual fee for registration of a site.

Results: Materials were purchased to allow students to monitor the local environment and to use in Delaware to count horseshoe crabs. They completed biological journals that indicated that the project had a significant impact on their lives and how they view the environment.

Amount granted: \$4,585.00

75 Walpole  
Stafford, VA 22554  
540-658-6420

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**University of Virginia**  
**Institute for Environmental Negotiation**  
**Project #: 007-087**

Plan: As in their 02-05 grant applications, the Institute seeks funding to continue teaching six three-day seminars, which includes a field trip to Tangier Island, for their state-wide program in environmental education and leadership by educating concerned Fellows about natural resource issues related to water quality, land use, and community sustainability.

Results: The fund helped VNRLI offer six scholarships to attendees. This support funded the purchase of course books for participants, a leadership and team building field experience, and a class field trip on the Elizabeth River for participants to see firsthand the restoration efforts and challenges of improving water quality in Virginia's rivers and the Bay. The class included environmental leaders from the nonprofit, public, and private sectors. These leaders are now better equipped with an understanding of water quality in Virginia and the Bay watershed and the partnerships and tools necessary to address the continued challenge of Bay restoration.

Amount granted: \$5,000.00

104 Emmet St.  
Charlottesville, VA 22903  
434-924-1970

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**Northumberland County Public Schools**  
**Project #: 007-099**

Plan: Northumberland County Public Schools proposes to construct two outdoor classroom pavilions along the Crabbe Mill Stream Nature Trail, which is located between the existing middle and elementary schools. They are only seeking funds for materials for the first pavilion.

Results: The fund provided the money for the construction of the Outdoor Classroom Pavilion on the Crabbe Mill Stream Nature Trail behind Northumberland Elementary School. Curriculum guides that are aligned with the Virginia Standards of Learning are being developed and will be given to all the teachers.

Amount granted: \$7,000.00

9020 Northumberland Hwy.  
Heathsville, VA 22473  
804-580-5753

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**Virginia Beach City Public Schools**  
**Project #: 008-012**

Plan: VBCPS proposes to invite over 500 K-12 teachers to participate in workshops and a "Chesapeake Bay Awareness Symposium for Teaching Inquiry Based Science." Their goals are to increase teacher awareness of environmental education, train teachers to teach inquiry based science, and increase the involvement of teachers and students in their local environment.

Results: The Chesapeake Bay Awareness Symposium for Teaching Inquiry Based Science introduced science concepts to school teachers in Virginia Beach and developed their skill in inquiry-based learning through the lens of the Chesapeake Bay. Two hundred-thirty teachers participated in the symposium and used what they learned in the program to take back to their students.

Amount granted: \$11,450.00

2512 George Mason Dr.  
Virginia Beach, VA 23456  
757-263-1212

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**Turner Ashby High School - Ecology II Class**  
**Project #: 008-023**

Plan: Similar to their 1997 and 2005 grant applications, Turner Ashby High School proposes to continue to improve the quality of Cooks Creek by directly managing the sedimentation of the creek around a farm behind the school, plant grasses, trees, cattails in order to reduce the amount of erosion by the streambank, and create a natural habitat for aquatic and wildlife. They seek funding for tools, tree tubes, tree seedlings, and chest waders.

Results: The project, partially funded by the fund, was successful for the portion of Cooks Creek targeted for streambank restoration through riparian buffer construction. Fifty-eight students, all students in Ecology and Conservation of Natural Resources Class and FFA (Future Farmers of American) members, researched tree and shrub species, solicited bids from seedling suppliers, and ordered seedlings using the funds provided. Fifteen hardwood species were planted in addition to white pine and spruce nurse trees.

Amount granted: \$3,380.00

800 North Main Street  
Bridgewater, VA 22812  
540-828-2008

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**Lynchburg City Schools**  
**Project #: 008-027**

Plan: Lynchburg City Schools has a marine touch tank displayed at Paul Laurence Dunbar Middle School for Innovation. Their main objective is to increase awareness of marine life and the impact humans can have upon this unique ecosystem. They are seeking funds for the aquarium surround upkeep, transportation of 5th graders and life science students to the designated site, food for the marine life, and T-shirts.

Results: Through the fund contribution, approximately 2,000 students will have visited or received instruction on marine biology/watershed components by the end of the school year. Each student has an exploratory class built upon the marine center component, which the grant helped fund. During presentations, students hear lectures on watershed factors, aquatic life impact, and oceanic preservation, along with direct hands-on contact to many of the organisms that make up the marine environment.

Amount granted: \$3,300.00

915 Court St.  
Lynchburg, VA 24505  
434-522-3740

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**Old Dominion University Research Foundation**  
**Project #: 008-033**

Plan: As in their 2007 grant application and with numerous letters of support, ODU Research Foundation proposes to continue to develop, implement, and disseminate a curriculum that is inquiry based and centered around a year-long theme of "My Place in the Environment" to Pre-K through K children. The theme will educate teachers and children about the environment and how to care for it, improve appreciation of wetlands and habitat in Hampton Roads, and encourage involvement in environmental behaviors that promote stewardship of the environment at school and home. The requested funds are for salaries and fringe benefits.

Results: ODU Research Foundation continued to develop, implement, and disseminate a curriculum that is inquiry based and centered on a year-long theme of "My Place in the Environment" to Pre-K through K children. Thirty Norfolk Pre-K and Kindergarten teachers attended a five hour Environmental Stewardship workshop. The fund was used to develop these lessons and buy materials needed for a hands-on experience.

Amount granted: \$15,000.00

P.O. Box 6369  
Norfolk, VA 23508-0369  
757-683-5465

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**Kemps Landing Magnet School**  
**Project #: 008-036**

Plan: Kemps Landing Magnet School's Life Science 6th graders seek funding for a field trip to the CBF Education Center (three days, two nights) for 113 students, teachers, and parents.

Results: One hundred twenty-four students, parents, and teachers spent three days and two nights experiencing the Chesapeake Bay through hands-on activities such as bay grass scraping, crabbing, dredging, canoeing, and exploring. Participants enjoyed Port Isobel East and West near Tangier Island, Smith Island in Tylerton, Karen Noonan Center in Upper Marlboro, and Fox Island. Students gained firsthand knowledge of academic disciplines such as earth science, biology, chemistry, civics, economics, government, and responsible citizenship.

Amount granted: \$10,735.00

4722 Jericho Rd.  
Virginia Beach, VA 23462  
757-473-5665



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**Booker T. Washington Middle School**  
**Project #: 008-056**

Plan: Booker T. Washington Middle School seeks funding for a Geographic Information System (GIS), which would provide opportunities for their students to enact science inquiry projects dealing with the Bay. They also seek funds for 20 teachers to participate in a week-long summer staff development session, two days aboard the "Baywatcher," and three days at a CBF Teaching Center, where they would be trained on using the GIS and conduct investigative studies pertaining to the Bay.

Results: Students and staff of Booker T. Washington Middle School have greatly benefited from the grant. Students used the equipment for exploration of the watershed on various field trips. They incorporated the use of technology in their Bay presentations and expanded their mathematical skills. The fund has allowed learning, experiencing, enjoying, and becoming passionate stewards of the Bay.

Amount granted: \$4,377.00

3700 Chestnut Ave.  
Newport News, VA 23607  
757-928-6860, Ext. 1104

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**George Mason University - Department of Environmental Science and Policy**  
**(Tidal Potomac Teacher Training Workshop)**  
**Project #: 008-060**

Plan: Similar to their 2007 grant application and with numerous letters of support, GMU proposes to organize a "Tidal Potomac Teacher Training Workshop," which is a week-long set of lectures and field trips providing teachers with the material they need to develop lesson plans that will heighten environmental and ecological awareness among students.

Results: Eight teachers enrolled in the workshop. The goal was to familiarize teachers with water quality and biota of the principal habitats in the tidal freshwater Potomac area. Water quality measurements were made with handheld meters and test kits were used for other variables. Contract funds were utilized to pay for field trip expenses, including boat and vehicle charges, as well as to provide supplies and small equipment items for the course.

Amount granted: \$3,223.00

4400 University Dr., MSN 5F2  
Fairfax, VA 22030  
703-993-1127

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**University of Virginia  
Institute for Environmental Negotiation  
Project #: 008-063**

Plan: Similar to their 02-06 grant applications, UVA proposes to increase the impact of the Va. Natural Resources Leadership Institute on the Bay by providing three scholarships, \$2,000.00 each, to the Leadership Institute for staff of educational and nonprofit organizations working directly with the Bay, bring environmental leaders on a field trip to Tangier Island or the Elizabeth River, and prepare, print, and disseminate course materials on Bay issues such as menhaden, oysters, Bay health, and agricultural and land use practices impacting the Bay.

Results: The Institute with the support of the grant was able to offer scholarships to attendees who would not have been able to participate. The support funded a class field trip on the Bay for participants to see first hand the restoration efforts and challenges of improving water quality in Virginia's rivers and the Bay. There were 23 environmental leaders from the nonprofit, public, and private sectors. They are now better equipped with an understanding of water quality in Virginia and the Bay watershed with the partnerships and tools necessary to address the continued challenge of Bay restoration.

Amount granted: \$3,500.00

104 Emmet St.  
Charlottesville, VA 22903  
434-924-1855

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**Kemps Landing Magnet School  
Project #: 009-002**

Plan: As in their 2008 grant application, Kemps Landing Magnet School's Life Science 6th graders seek funding for a field trip to the CBF Education Center (three days, two nights) for 124 students, teachers, and parents.

Results: The grant was used to send sixth graders to the Chesapeake Bay Education Center for three days and nights. The students experienced hands-on activities with canoeing, fishing, crabbing, writing in journals, and exploring islands in the Chesapeake Bay. The trip enriched students understanding of how they play a key role in the continued health of the Bay.

Amount granted: \$15,000.00

4722 Jericho Rd.  
Virginia Beach, VA 23462  
757-648-4650

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**Hopewell High School**  
**Project #: 009-043**

Plan: Hopewell High School proposes to focus on monitoring the water quality and associated factors of the James and Appomattox Rivers and Cabin Creek. They seek funding for DO, Turbidity, and pH meters, Secchi disks, D-nets, two canoes and transport trailer, GPS receivers, and the wetlands version of the Enviroscope watershed model.

Results: The objective of this project was to introduce high school students to the water quality issues that affect Hopewell and the Chesapeake Bay and to teach students about water quality monitoring. Students were trained to use industry grade equipment and perform water quality tests relevant to the pollution found in the Lower James and Appomattox Rivers. Approximately 90 students attended a series of six field trips to the Dutch Gap Conservation Area in Chesterfield County and a second series of field trips to the Hopewell Regional Water Treatment Facility. This grant allowed Hopewell High School to purchase the needed equipment and funded the field trips that put the students' training into perspective and sparked an interest in pursuing careers in environmental science, policy, and/or management.

Amount granted:       \$9,000.00

400 S. Mesa Dr.  
Hopewell, VA 23860  
804-541-6402

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**University of Virginia  
Institute for Environmental Negotiation  
Project #: 009-047**

Plan: Similar to their 02-08 grant applications, UVA proposes to increase the impact of the Va. Natural Resources Leadership Institute on the Bay by providing scholarships to educational and nonprofit organizations to attend the Leadership Institute for staff working directly with the Bay; bring environmental leaders on a field trip to the Bay, Tangier Island, or the Elizabeth River; and prepare, print, and disseminate course materials on Bay issues such as menhaden, oysters, Bay health, and agricultural and land use practices impacting the Bay.

Results: The main purpose of the grant was to use Virginia Natural Resource Leadership Institute's capacity and methodology to increase awareness of Chesapeake Bay issues. The learning sessions centered on environmental issues relevant to the Bay: growth and growth management, water quality, land use, fisheries, and TMDLs. Each class returned to their local communities as VNRLI graduates and they are informed and prepared to build consensus for actions that will ultimately improve the Bay's living resources.

Amount granted:       \$6,500.00

P.O. Box 400195  
Charlottesville, VA 22904  
434-924-1855

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**Peninsula Metropolitan YMCA  
Star Achievers Academy  
(Cooper Elementary Magnet School)  
Project #: 009-055**

Plan: As a continuation of the 2004 and 2005 grant applications from Cooper Elementary, the Peninsula Metropolitan YMCA proposes the involvement of students, teachers, and families in science exploration, planning, and implementation of environmental education projects to increase the 5th grade SOL scores in science. The "Wet and Wild Bay" project will occur at the school site, Grandview Beach Nature Preserve, Belle Isle Marina, the YMCA Camp Silver Beach, Chincoteague Island, and the National Wildlife Refuge. They seek funding for instruction, transportation, lodging, T-shirts, and supplies.

Results: The fund continued to support the Peninsula Metropolitan YMCA's involvement of students, teachers, and families in science exploration, planning, and implementation of environmental education projects to increase the fifth grade SOL scores in science.

Amount granted:       \$6,000.00

P.O. Box 7593  
Hampton, VA 23666  
757-826-6018

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**Lynchburg College**  
**Project #: 009-062**

Plan: To continue with their 2007 grant application on the Blackwater Creek, the College proposes to establish The Central Va. Water Quality Center to encourage and conduct research, develop and implement solutions for environmentally impacted areas, and to provide measures to preserve and better the environmental quality of the watersheds in Central Va., while supporting economic growth and encouraging citizen responsibility. The Center's four areas of emphasis are environmental education, reservoir preservation and restoration, special projects targeted at specific environmental improvement, and the facilitation of mitigation transactions. They seek funding for salaries, benefits, travel, supplies, workshops, and the printing of brochures.

Results: Lynchburg College established the Center for Water Quality, providing a centrally located source of information and support for citizens and other stakeholders within the central portion of Virginia. A web presence was developed with information about the Center and links to quality websites with scientifically based materials and valuable educational tools and materials. The Center conducted three workshops on topics of local water quality, the Blackwater Creek Watershed Management Plan, preservation, conservation, and mitigation. CBRF supported this effort.

Amount granted:       \$8,250.00

1501 Lakeside Dr.  
Lynchburg, VA 24501-3199  
434-610-1622

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**Booker T. Washington Middle School**  
**Project #: 009-065**

Plan: Similar to their grant applications in 06-08, Booker T. Washington Middle School seeks funding for teachers to participate in a week-long summer staff development session. Two of the days would be spent in local waters conducting investigative studies and exploring the John Smith Waterway and three of the days at a CBF Teaching Center where they would research the past history of the Bay while participating in water activities. They also seek funds for five PASCO SPARK Science Learning Systems and 50 books each of "The Last Waterman" and "Chesapeake-Exploring the Water Trail of Captain John Smith."

Results: Grant monies allowed marine science focus to grow stronger each year. Both students and teachers have benefited from the opportunities provided to them. Purchasing supplemental materials and providing field experiences helped to complete the program. The school has cultivated young citizens who appreciate, understand, and will continue to preserve the environment and the Chesapeake Bay.

Amount granted:       \$3,740.00

3700 Chestnut Ave.  
Newport News, VA 23607  
757-928-6860; Ext. 1104

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**Friends of the Rappahannock  
(Christchurch School)  
Project #: 009-069**

Plan: FOR, working with Christchurch, seeks funds to establish an oyster reef within the school's 101 acre leased Rappahannock River bottom, increase the number of oysters grown to 400,000, continue to expand the "Cans for Oysters" program (1 recycled aluminum can = 1 oyster!) by including the entire student body, engage community volunteers in three volunteer workdays, and host a backyard oyster gardening workshop for tidal landowners where participants will leave with equipment and oyster seed to start on their docks.

Results: The Christchurch School oyster program was initiated in 2007 to link student environmental education with taking action to restore the health of the Rappahannock River. This project grant year the following was accomplished: distributed 20,000 seed oysters to the community for other individuals to start their own oyster garden restoration projects and planted 500,000 "spat on shell" oysters in the Rappahannock River. This helped restore ecosystem function and student service-learning.

Amount granted: \$6,450.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

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**Monacan Soil & Water Conservation District  
Project #: 010-010**

Plan: As in their 1996, 1997, 1998, 2001, 2003, 2007, 2008, and 2009 grant applications, Monacan SWCD proposes to use the funds to help defray the costs for their "Conservation Days" program to be held this time at Powhatan Junior High School. The program will provide over 345 7th graders a hands-on educational experience concerning soils, wildlife, food webs, ecosystems, nonpoint source pollution, watersheds, and associated environmental issues. They seek funds for water, ice, cups, educational materials and handouts, salaries, and travel for presenters.

Results: The CBRF continued the grant to the District in support of the Conservation Days program at Powhatan Junior High School. Three hundred fifty seventh graders participated over a four day period. There was opportunity at each station for hands-on experiences in chemical water testing, soil exploration, wildlife, and forestry.

Amount granted: \$2,470.00

P.O. Box 66  
Goochland, VA 23063  
804-556-4936



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**The Friends of the Rappahannock  
(Christchurch School)  
Project #: 010-013**

Plan: Continuing with their 2009 grant application, FOR, working with Christchurch, seeks funds to expand the oyster reef restoration within the school's 101 acre leased Rappahannock River bottom, increase the number of oysters grown to 400,000, expand the can recycling to the greater community, continue to expand the "Cans for Oysters" program (1 recycled aluminum can = 1 oyster!) by including the entire student body, engage community volunteers in three volunteer workdays, and host a backyard oyster gardening workshop for tidal landowners where participants will leave with equipment and oyster seed to start on their docks.

Results: The Christchurch School oyster program was initiated in 2007 to link student environmental education with action to restore the health of the Rappahannock River. With partial support from the fund, the program has successfully established an oyster reef in the Rappahannock River off the banks of the school's waterfront property. This year the grant helped establish a new oyster reef restoration site in Urbanna Creek, continued the oyster reef in the Rappahannock River, planted nearly 800,000 "spat on shell" oysters at these two sites, distributed 30,000 seed oysters to individuals for backyard oyster gardens, and involved 383 youth and community members in the workdays and several workshops.

Amount granted: \$4,000.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

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**The Friends of Rappahannock  
(Colonial Forge High School Learn and Serve)  
Project #: 010-014**

Plan: FOR, along with Colonial Forge High School Learn and Serve students, will have a sustainable riparian buffer restoration program run by school staff and facilitated by FOR, resulting in nutrient and sediment reductions in the river and Bay and raising public awareness of Bay issues.

Results: For this school year, 60 Student Stream Teach students participated in a Meaningful Watershed Educational Experience to learn about and restore stream/riverside forest buffers. The students were guided through a year-long curriculum to build their knowledge in water quality issues and the importance of riparian forests to the health of the Rappahannock River. This year the students helped restore two sites, one a headwater stream and the other a riverine hillside. In total, they planted 336 trees.

Amount granted: \$4,800.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

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**Aylett Country Day School  
Project #: 010-017**

Plan: Aylett Country Day School proposes a field trip to Tangier Island that will give students a look at a waterman's way of life, the oyster and crab industry, and how state regulations affect the Bay. With the use of United Streaming software, hands-on instruction and materials for fish dissection, and chemicals for water experimentation, students will have opportunities to better understand the environment and ecological implications from industrial runoff and mankind's neglect and misuse.

Results: As a result of the CBRF, ongoing studies of the Chesapeake Bay are an essential part of the middle school science curriculum at Aylett Country Day School. Sixth graders are introduced to the Bay and contributing rivers, seventh grade students researched life in the Bay by studying plant and animal life, and eight graders experimented with and studied the chemistry of the Bay. Studies included a trip to Tangier Island, the oyster and crab industry, and how state regulations affect the changes and improvement of Bay degradation. Students have started oyster beds and monitored changes and growth.

Amount granted: \$3,005.00

P.O. Box 70  
Millers Tavern, VA 23115  
804-443-3214

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**Orange County Public Schools**  
**Project #: 010-020**

Plan: Orange County Public Schools began a "Chesapeake Bay Field Experiences Summer Scholars" program for their middle school students supporting advanced learning and science, with environmental education as the main topic. To continue with their summer program, they seek funding for salaries, transportation, and the CBF Education Center fee for 32 students and five teacher/chaperones.

Results: Twenty five students and four adults participated in Chesapeake Bay Foundation Education experiences. Making connections to the watershed community was part of the Eco Scholars' experience. Community members were invited to a BayFest celebration where students showcased action projects they undertook after the CBF trip. Teachers and students presented the Eco Scholars project at the DEQ Environment Education Conference in September. They hope to continue this program.

Amount granted: \$5,275.00

200 Dailey Dr.  
Orange, VA 22960  
540-661-4420, ext. 2086

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**Linville-Edom Elementary School**  
**Project: #010-030**

Plan: Linville-Edom Elementary School proposes for their "Trout in the Classroom" project to raise trout from eggs to fingerlings, monitor tank water quality, engage in stream habitat study, appreciate water resources, foster a conservation ethic, and understand ecosystem connectivity.

Results: Through the Trout in the Classroom program that the grant funded, students learned about water conservation, keeping waterways clean, and facts about the watershed that we inhabit. Keeping a healthy tank for trout in the classroom helped students release the trout into a Virginia creek where they determined the health of the stream by testing the water and searching for macroinvertebrates. The program covered several of the science fourth grade SOL skills while giving the students a real life learning experience.

Amount granted: \$1,158.49

3653 Linville-Edom Rd.  
Linville, VA 22834  
540-833-6916

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**The Friends of Onancock School**  
**Project #: 010-044**

Plan: The Friends of Onancock School proposes to reclaim and restore the South Branch of Onancock Creek in order to allow public access and provide environmental education for the public to interact with nature.

Results: The Onancock Nature Trail was created in 2008. Over 1,200 man-hours have gone into converting this area from woods overgrown with green briar and poison ivy to a walking trail with many native trees, shrubs, and lovely views of the Central Branch of the Onancock Creek. The trail provides both educational and recreational opportunities for Eastern Shore residents.

Amount granted: \$4,000.00

P.O. Box 467  
Onancock, VA 23417  
757-787-7845

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**Three Rivers Soil and Water Conservation District**  
**Project #: 010-051**

Plan: Similar to their 2006 grant application, Three Rivers proposes to develop an Outdoor Classroom/Learning Lab at Central High School, which will provide the students with a better understanding of nature and their responsibilities and relationships to the natural environment. They seek funding for rain barrels, the creation of a weather station, bird sanctuary, butterfly and native gardens, and the development of an area for evaluation desks.

Results: CBRF provided the Outdoor Classroom grant for students of Central High School in King and Queen County. The Master Gardeners provided expertise in selecting, purchasing, and planting all native plants included in the project. Three Rivers SWCD has been asked to assist with Outdoor Classrooms at both elementary schools in King and Queen County to provide environmental education tools for the science Standards of Learning. The targeted conservation concepts focused on the Chesapeake Bay, nonpoint source pollution, erosion, watersheds, wildlife, native plants, and weather. The grant provided the teachers at Central High School with a much needed tool to incorporate a living classroom into their lesson plans on a continued basis.

Amount granted: \$4,000.00

P.O. Box 815  
Tappahannock, VA 22560  
804-443-2327; Ext. 101

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**Hull Springs Farm Foundation  
Longwood University  
Project #: 010-052**

Plan: HSFF, working closely with Washington and Lee High School, proposes to develop and implement a "Field Science Investigations" program for the Westmoreland Co. Public School District, using Hull Springs Farm as a base of operations. The program will provide students with a meaningful experience in conducting research and addressing real world ecological problems at the Farm.

Results: The fund contributed to a pilot program between Westmoreland County Public Schools and Longwood University's Hull Springs Farm. The program curriculum was to provide Bay-area students with a series of experiences that promote Bay-awareness and inspire students to pursue a degree in a science related field. An extensive curriculum was established, implemented, and revised so that it can be used in other schools.

Amount granted: \$14,200.00

645 Hull Springs Farm Rd.  
Montross, VA 22520  
804-472-2621

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**Clean Virginia Waterways  
Longwood University  
Project #: 010-053**

Plan: As in their 2003 grant application, CVW seeks funds for the "2010 International Coastal Cleanup in Virginia," which is a project to increase public awareness and knowledge of Va.'s watersheds by involving volunteers in removing solid waste debris and litter from beaches and the tributaries to the Bay.

Results: The objective of this grant was to enable CVW to organize and promote a successful statewide event that would engage volunteers in cleaning trash and litter from our state's rivers, streams, and beaches. The 2010 Virginia Waterways Cleanup set a new record for the number of volunteers participating. Schools, parks, civic groups, and CVW's corporate partners participated in river and beach cleanups in enthusiastic numbers. A record-setting 6,157 volunteers removed more than 188,000 pieces of litter and debris from Virginia's waterways and also collected valuable data about what they were finding.

Amount granted: \$15,000.00

Dept. of Natural Sciences  
201 High St.  
Farmville, VA 23909  
434-395-2602

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**Ware Academy**  
**Project #: 010-065**

Plan: For eight years, Ware Academy has conducted a "Bay-A-Ware" program for their students, which integrates marine science and Bay studies into their science program to give the students an understanding of basic science as it relates to the Bay watershed. Due to increased enrollment and lack of funding, the Academy seeks funds for supplies and eight canoes/kayaks.

Results: The Academy's eighth grade class participated in a year-long study of the Chesapeake Bay watershed that included a comparative study of the lower Bay and tributaries in the northern part of the watershed. Water quality tests were conducted in both locations along with pollution sources. Tests on air pollution and stream surveys were conducted along with macroorganism studies. Students participated in a week-long field trip to northern Pennsylvania where comparisons were made with the lower Bay. Topics chosen by the students for their final reports consisted of studies on invasive species, oyster cultures, blue crab populations, pollution from fertilizer, human population affects, agricultural practices, salinity difference, and rising ocean levels. Students and parents gained a deep understanding of issues affecting the Bay.

Amount granted: \$5,900.00

7936 John Clayton Memorial Hwy.  
Gloucester, VA 23061  
804-693-3825

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**Patrick Henry School of Science and Arts**  
**Project #: 010-078**

Plan: Patrick Henry School of Science and Arts proposes for their "Big Question" watershed project to provide meaningful and authentic watershed experiences for students, raise environmental awareness, demonstrate how to have a positive impact on the watershed, connect all SOLs through a strong environmental science program, and nurture students to become lifelong caretakers of their watershed.

Results: The grant gave the students of PHSSA the jump start needed to transition to a permanent location on Semmes Avenue. Work was completed on all areas of their garden spaces (erosion control, etc.) creating a primary learning space. The areas are now tended, enhanced, observed, and enjoyed by the children. The students were provided with a wonderful start to becoming environmentally conscious learners.

Amount granted: \$6,790.00

P.O. Box 2459  
Richmond, VA 23218  
804-233-2848

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**Orange County Public Schools**  
**Project #: 011-008**

Plan: Orange County Public Schools began a "Chesapeake Bay Field Experiences Summer Scholars" program for their middle school students supporting advanced learning and science, with environmental education as the main topic. To continue with their summer program as requested in their 2010 grant application, they seek funding for salaries, transportation, and the CBF Education Center fee for 24 students and four teacher/two experiential educators.

Results: The field study at Smith Island involved 25 middle school students and three teacher leaders. Students made rain barrels, created environmentally-friendly cleaning products, studied insect infestations, cleaned stream beds, and spread their enthusiasm for science. The follow-up surveys indicated the student's level of understanding of science concepts and the environment.

Amount granted: \$2,660.00

200 Dailey Dr.  
Orange, VA 22960  
540-661-4420, ext. 2086

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**Kemps Landing Magnet School**  
**Project #: 011-009**

Plan: As in their 08-10 grant applications, Kemps Landing Magnet School's Life Science 6th graders continue to seek funding for a field trip to the CBF Education Center (three days, two nights) for 124 students, teachers, and parents.

Results: The grant helped fund a trip to the Chesapeake Foundation Island educational centers in the spring. Over three days and two nights, approximately 100, sixth grade students were immersed in the study of the Chesapeake Bay. Students learned about the ecology of the Bay, developed an appreciation of the natural world through night hikes, and gained knowledge of the marsh habitat. Students set a personal goal for continued participation in saving the Bay.

Amount granted: \$4,000.00

4722 Jericho Rd.  
Virginia Beach, VA 23462  
757-648-4650

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**Coventry Elementary School**  
**Project #: 011-017**

Plan: Coventry Elementary seeks funding for the Chesapeake Experience staff to provide a field trip for all 5th grade students to Roger Smith Landing Park on the Poquoson River. This hands-on learning experience highlighting the Bay will include kayaking, crabbing, and the collection of data to be used in their classroom curriculum.

Results: Elementary fifth grade students participated in a field experience led by Chesapeake Experience staff at Smith Landing Park on the Poquoson River. This hands-on learning experience highlighting the Bay included kayaking, crabbing, and the collection of data that was used in the classroom curriculum. The students extended the field experience to the classroom via discussions, journal writing, and literature connections. Students, parents, and teachers are more cognizant of environmental issues involving the Bay as a result of this field experience.

Amount granted:       \$2,140.00

200 Owen Davis Blvd.  
Yorktown, VA 23693  
757-898-0402

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**Dominion Christian School**  
**Project #: 011-019**

Plan: The 7th grade Life Science students will learn foundational information about the abiotic and biotic components of estuaries using classroom instruction and investigation. They seek funding to purchase field study tools to be used at Little Difficult Run Stream and to supplement the cost of the three day CBF residential study program at Fox Island Environmental Center.

Results: The goal of the watershed curriculum consists of four components. Students learned foundational information about abiotic and biotic components of estuaries using classroom instruction and investigation. They monitored a local tributary of the Potomac River using supplies and equipment purchased with grant money. Grant money subsidized the school's first field trip to the Chesapeake Bay and allowed the seventh grade class to participate in an aquatic grass restoration project with the Chesapeake Bay Foundation.

Amount granted:       \$1,895.00

10922 Vale Rd.  
Oakton, VA 22124  
703-758-1055



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**Peninsula Metropolitan YMCA  
Star Achievers Academy  
(Cooper Elementary Magnet School)  
Project #: 011-040**

Plan: As a continuation of the 2004 and 2005 grant applications from Cooper Elementary and the 2009 grant application from the Peninsula Metropolitan YMCA, the YMCA proposes the involvement of students, teachers, and families in science exploration, planning, and implementation of environmental education projects to increase the 5th grade SOL scores in science. The "Wet and Wild Bay" project will occur at the school site, Grandview Beach Nature Preserve, and the YMCA Camp Silver Beach. They seek funding for instructors, food, lodging, T-shirts, and supplies.

Results: The project involved student investigations at three separate field study sites: Cooper school yard and creek, Grandview Beach Nature Preserve in Hampton, and a three-day environmental education residential experience at Camp Silver Beach on Virginia's Eastern Shore. The project culminated with a student planned school-wide environmental workshop presentation where project participants demonstrated student learning and understanding of their experience. The environmental workshop presentation exposed approximately 400 students and 35 teachers, staff, and parents from Cooper School.

Amount granted: \$5,000.00

P.O. Box 7593  
Hampton, VA 23666  
757-826-6018

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**Booker T. Washington Middle School**  
**Project #: 011-071**

Plan: Booker T. Washington Middle School seeks funding to harvest and plant oysters on a nearby reef. Three floats and spat would be purchased from Oyster Reef Keepers of Va. Students will take two field trips to clean, measure, and record the size and growth of the oysters. Twenty four 7th graders will kayak out and plant the oysters on a reef in the York River and 20 teachers will go on a one-day field trip to visit and work at Tommy Leggett's CBF oyster farms, with Chesapeake Experience being their guide for both. They also are requesting funds for a greenhouse to grow bay grass seedlings and plugs to plant in their school wetlands and in nearby areas on the James and Lafayette Rivers. Finally, they are seeking funds for three field trips for their Life Science students to aid them in the understanding of a freshwater/saltwater environment for growing grasses and ending with the planting of the grasses at the appropriate time.

Results: The funds helped to educate teachers and students, in addition to providing field experiences, to support the marine science focus in oyster and bay grass restoration. The schools environmental awareness is growing with staff, students, and family participation. There was an increase in Science SOL pass rate by three percent to 96 percent, the highest in the Newport News school division. With exemplary classroom instruction, Meaningful Watershed Educational Experiences, active participation in community projects, and with additional funding, they have been able to cultivate passionate young environmental stewards.

Amount granted:       \$3,115.00

3700 Chestnut Ave.  
Newport News, VA 23607  
757-928-6860, ext. 1104

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**Norfolk Public Schools - Science Office**  
**Project #: 011-080**

**Plan:** In the fall of 2010, the Norfolk Public Schools, with the Norfolk Redevelopment and Housing Authority, opened the Grandy Village Learning Center, an environmental education learning laboratory located on the Elizabeth River. NPS proposes to bring students in grades 4-7, a total of six area schools, to the Learning Center to explore the wetlands and conduct investigations.

**Results:** The Science Office of Norfolk Public Schools, in collaboration with the Office of Gifted Education and the Chesapeake Bay Restoration Project, was able to offer 359 students from Chesterfield Academy, Granby Elementary, Fairlawn Elementary, Azalea Middle, and Ruffner Academy a unique environmental education learning experience at the Grandy Village Learning Center in Norfolk, Virginia. Students in grades 4-6 investigated the wetlands environment on the coast of the Elizabeth River in Norfolk through multiple hands-on investigations. As a result of this learning experience, students showed an increase of mastery in the SOL strand related to Life Processes and Living Systems on district benchmark assessments as well as on the Virginia Standards of Learning test.

**Amount granted:**       \$5,355.15

800 E. City Hall Ave.  
Norfolk, VA 23510  
757-628-3878

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**Rivanna Conservation Society  
(Blue Ridge School)  
Project #: 011-085**

Plan: Continuing further with their 07-10 grant applications and with numerous letters of support, RCS, along with the Blue Ridge School, proposes for their watershed-wide monitoring "Network" project to create a river-wide "Network" of students and teachers, share proven educational technologies and techniques, support teachers in meeting their MWEE goals, assure self-sufficiency by providing educational tools, and convey the important relationship between local water concerns at the headwaters and those of the imperiled Bay.

Results: The RCS sought and received funding from the CBRF to create the Water Health for the Commonwealth water quality monitoring system within the Rivanna River, James River, and Chesapeake Bay watershed. The goal is to create a self-sustaining in-school watershed education program throughout the region and an overall improvement of the Virginia Standards of Learning (SOL) test scores for the Rivanna and James River watershed students. Teachers and students believe that the program is meeting its goal.

Amount granted: \$14,000.00

P.O. Box 1501  
Charlottesville, VA 22902  
434-985-1802

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**Nelson Elementary School  
Project #: 011-088**

Plan: Nelson Elementary proposes for the students to plant and maintain a garden and wildlife habitat on their schoolyard. The students will learn the importance of plants in preventing erosion, keeping the Bay clean, and providing food and habitats for animals and insects. The school will also involve the students in composting food scraps and clippings from the garden to create "green" fertilizer and use beneficial insects to control pests.

Results: The CBRF supported the construction of six garden plots approximately 20 feet by 16 feet. The benefits include beautifying school grounds and providing food and shelter for native species of insects and small wildlife. Many of the students have been exposed to the process of planting and caring for the plants for the first time, allowing them to see the life cycle of the plants. The garden has raised environmental awareness at the school and community and supported watershed awareness.

Amount granted: \$2,500.00

826 Moyer Rd.  
Newport News, VA 23608  
757-886-7783

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**Norfolk Public Schools**  
**Ocean View Maritime Elementary School**  
**Project #: 011-095**

Plan: Ocean View Elementary School proposes to expand their "Oyster Restoration" project utilizing the community fishing and oyster pier. They seek funding to provide 20 students a field trip to the Elizabeth River Project's Learning Barge; supplies; equip the supply shed at the Rec Center's fishing pier and construct three oyster floats at same; provide transportation for students to visit the pier monthly in order to maintain the oyster floats; allow 20 students to participate in a field trip on the CBF's Bea Hayman Clarke boat; and afford students the opportunity to educate the community about their project through evening public education programs at the Rec Center.

Results: Ocean View Elementary School used the grant from the CBRF for supplies, transportation, field studies trips, and public educational program fliers to expand their "Oyster Restoration" project. They have successfully dropped 1,000,000 oysters after maintaining the program for the last 15 years.

Amount granted: \$7,540.00

9501 Mason Creek Rd.  
Norfolk, VA 23503  
757-531-3105

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**Teenage Parenting Programs of Arlington Public Schools**  
**Project #: 011-101**

Plan: TPP proposes for their "The Me and We of the Bay" project to develop for their 40 students an Understanding by Design interdisciplinary unit exploring the Bay. They seek funding for field trips to explore the Bay, which will be at the Smithsonian Environmental Research Center and Baltimore's Inner Harbor and National Aquarium. They will also create a personal photo book documenting the students' experiences.

Results: The grant funds were spent on transportation, two boat trips, a day trip to Baltimore's Inner Harbor/the National Aquarium, and photos and personal photo books documenting student experiences. The effectiveness of "The Me and We of the Bay" was evaluated by participation on the field trips and the successful completion of student-created books and their presentation of the books.

Amount granted: \$5,025.70

1644 N. McKinley Rd., #2  
Arlington, VA 22205  
703-228-7214

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**Kemps Landing Magnet School**  
**Project #: 012-005**

Plan: As in their 08-11 grant applications, Kemps Landing Magnet School's Life Science 6th graders continue to seek funding for a field trip to the CBF Education Center (three days, two nights) for 110 students.

Results: The fund supported approximately 100 sixth grade students on a trip to the Chesapeake Bay Foundation island educational centers and an oyster reef keepers field trip. Students learned about the ecology of the Bay, developed an appreciation of the natural world, and gained knowledge of the marsh habitat. Students set a personal goal for continued participation in saving the Bay.

Amount granted: \$5,000.00

4722 Jericho Rd.  
Virginia Beach, VA 23462  
757-648-4650

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**Aylett Country Day School**  
**Project #: 012-012**

Plan: As in their 2010 and 2011 grant applications, Aylett Country Day School proposes field trips to Tangier Island and Hampton Roads to give students a look at a waterman's way of life, the oyster and crab industry, and how state regulations affect the Bay. With the use of United Streaming software, hands-on instruction and materials for fish dissection, and chemicals for water experimentation, students will have opportunities to better understand the environment and ecological implications from industrial runoff and mankind's neglect and misuse.

Results: Ongoing studies of the Chesapeake Bay are an essential part of the middle school science curriculum at Aylett Country Day School. The CBRF enabled the students to take a field trip to the Mariners' Museum, supported teacher supplies, and microscope cleaning.

Amount granted: \$2,000.00

P.O. Box 70  
Millers Tavern, VA 23115  
804-443-3214

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**Belle View Elementary School PTA**  
**Project #: 012-013**

Plan: Belle View Elementary School PTA is proposing a whole-school (K-6) environmental program focused on hands-on science instruction through the replication of the Dyke Marsh Wildlife Preserve on school grounds.

Results: The school completed their Wetland Restoration project with the help of the CBRF. They installed a model of the Dyke Marsh ecosystem on the school grounds (including four pools and thousands of native plants); completed a rain garden and vernal pool on the property as a part of the same watershed area; and the adding of seating, signage, observation areas, and tables have opened the area for school and community use. Each grade level (K-6 and Special Education) developed activities that corresponded with the Virginia Standards of Learning (SOL).

Amount granted: \$4,800.00

6701 Fort Hunt Rd.  
Alexandria, VA 22307  
703-660-8300

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**Orange County Public Schools**  
**Project #: 012-014**

Plan: Orange County Public Schools proposes to continue their "Chesapeake Bay Field Experiences Summer Scholars" program for their middle school students supporting advanced learning and science, with environmental education as the main topic. As requested in their 2010 and 2011 grant applications, they seek funding for the five day Eco Scholars program offered at the CBF Education Center for 25 students and three teacher educators. New for the 2012 grant cycle, they seek further funding to expand the Eco Scholars program to include 10-12 high school students and one lead teacher.

Results: The CBRF made the students show a commitment to the environment. Students were encouraged to complete action projects: planting trees, forming a Save the Bay Club at one of the middle schools, Science Fair projects on the benefits of coconut oil, a school yard report card project that led to creating more efficient recycling and establishing a green space, and gardening, stream clean up, and oyster research which is important Bay filters to the seafood industry.

Amount granted: \$2,660.00

200 Dailey Dr.  
Orange, VA 22960  
540-661-4580

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**Corporate Landing Middle School  
Project #: 012-031**

Plan: Corporate Landing Middle School seeks funding to continue an environmental project that teaches four classes of at risk 7th grade life science students with hands-on and field-based science experiences that revolve around oysters being protected to experience optimum growth and then be transplanted onto a local reef to help rebuild the oyster population.

Results: Four thousand oyster spat were bought to grow in the Taylor Float. The rest reside on a local reef in the Broad Bay area of the city to filter the water and reproduce to provide more filter feeders. Numerous caretakers will never forget the importance of oysters and of having clean water in the Chesapeake Bay watershed.

Amount granted: \$850.00

1597 Corporate Landing Pkwy.  
Virginia Beach, VA 23454  
757-648-4500

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**Cumberland County Public Schools  
Project #: 012-032**

Plan: Cumberland County Public Schools proposes to offer students an opportunity to enhance environmental education by terracing two hillsides at their schools currently experiencing erosion and through a series of field trips at their local state parks.

Results: Approximately 78 students from Cumberland County Public Schools representing 4th, 8th, and 12th grades attended a field trip to the James River Association Ecology School. Middle and high school students were presented a lesson on the Watershed of the Chesapeake Bay and the relationship of residents in Cumberland County with the water quality of the James River. Students reviewed maps of the watershed and participated in a classroom activity to identify the area in the state and Best Management Practices for keeping the water clean. Post trip activities included a PowerPoint presentation presented to the school board highlighting the trip and the SOL objectives covered.

Amount granted: \$2,000.00

P.O. Box 170  
Cumberland, VA 23040  
804-492-4212, ext. 6202



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**Ware Academy**  
**Project #: 012-036**

Plan: As in their 2010 grant application, Ware Academy has conducted for 10 years a "Bay-A-Ware" program for their students, which integrates marine science and Bay studies into the science program to give their students an understanding of basic science as it relates to the Bay watershed. New for this grant cycle, they plan to increase their program to include aquaculture studies, submerged aquatic vegetation growth, and native and invasive species studies in their greenhouse laboratory. They seek funds for a hydroponic and aquaculture system and a canoe trailer.

Results: Each year the eighth grade class spends a week in the Chesapeake Bay watershed exploring issues that affect the Bay. Students do water quality tests, air pollution tests, and stream surveys in an effort to understand the issues associated with the health of the Bay. Time is also spent traveling to Pennsylvania to explore the watershed, spending time hiking, and floating on Susquehanna River tributaries. Students keep journals and, as a final product, present an oral and written evaluation of the results of the study. The grant helps to support this effort.

Amount granted:       \$4,000.00

7936 John Clayton Memorial Hwy.  
Gloucester, VA 23061  
804-693-3825

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**Alice Ferguson Foundation**  
**Project #: 012-042**

Plan: The Foundation seeks funding to conduct 29 "Bridging the Watershed" field studies for 900 high school students and train 15 teachers at Prince William Co. Public Schools in two Va. national parks.

Results: "Bridging the Watershed" is an environmental education program of the Alice Ferguson Foundation in partnership with the National Park Service and area school systems in Virginia, Maryland, District of Columbia, and West Virginia. Their goals are to increase Prince William County Schools' students and teachers environmental knowledge through performing environmental science field work in at least two Virginia national parks and to provide students exposure to the range of possible career choices within the field of natural resources. The grant provided professional development to increase environmental knowledge for Prince William County Schools teachers by 87 percent of participants and 65 percent of the students indicated they had a positive change in their self-perceived environmental stewardship.

Amount granted: \$5,000.00

2001 Bryan Point Rd.  
Accokeek, MD 20607  
301-292-5665

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**Virginia Beach City Public Schools**  
**Strawbridge Elementary School**  
**Project #: 012-055**

Plan: VBCPS (Strawbridge Elementary School) seeks funds for their "Operation Oyster" project, which is a year-long program providing field and classroom experiences allowing students to explore wetland and open water habitats through the assistance of the Va. Aquarium. They seek further funding for three iPads.

Results: Students analyzed historical oyster populations and compared them to present day oyster populations. Six classrooms participated in "Operation Oyster." They collected monthly data on oyster growth, salinity, water temperature, and oyster mortality. Additionally, third grade students who were interested in participating in environmental stewardship projects were encouraged to apply to a new after school club called the Pearl Club. "Operation Oyster" classes and Pearl Club students worked to create campaigns and complete service projects to serve the community.

Amount granted: \$2,740.00

2553 Strawbridge Rd.  
Virginia Beach, VA 23456  
757-648-3800

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**Hanover Academy**  
**Project #: 012-065**

Plan: On the gifted 1.6 acres to Hanover Academy, they propose to establish an outdoor classroom and learning center surrounded by natural habitat communities. They seek funds for a greenhouse/potting shed and the raised bed portion of their classroom and learning center.

Results: The CBRF helped establish the Academy's first raised garden bed. They also added a potting shed as a result of the grant. The students were excited about this hands-on learning experience and have shown a greater interest in vegetable harvesting now that they are growing them.

Amount granted:       \$3,400.00

115 Frances Rd.  
Ashland, VA 23005  
804-798-8413

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**Oyster Reef Keepers of Virginia, Inc.**  
**Project #: 012-067**

Plan: As in their 03-06 and 09-11 grant applications and with letters of support, ORKV seeks funding for 420,000 oysters and materials to 167 classes for their "Schools Restoring Oysters to the Chesapeake" program. New for ORKV and this grant cycle, they also seek funding to provide their "Classroom Mini Reef" program to 20 teachers.

Results: With grant funds, 687,500 baby oysters were distributed to 175 Virginia school teachers and their 8,750 students in Fall 2012. Schools raised and studied the oysters throughout the school year. Students transplanted their oysters to sanctuary reefs in Virginia tributaries, where the oysters will spawn and provide offspring to revitalize future oyster generations in the Bay. Grant funds were also used to train 22 teachers in the new "Classroom Mini-Reef" program, which gives teachers the training and tools to create a thriving reef microcosm in their classrooms to demonstrably show students why oyster reefs provide critical Bay habitat. To date, 99,950 students have participated in their "Schools Restoring Oysters to the Chesapeake" program and they have contributed a total of 6.1 million reproductive oysters to sanctuary reefs in Virginia.

Amount granted:       \$12,000.00

P.O. Box 55201  
Virginia Beach, VA 23471  
757-460-1200

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**Stafford County Public Schools**  
**Project #: 012-090**

Plan: SCPS proposes for their new high school to enhance environmental education through the use of technology and an interactive kiosk system; increase involvement of students, teachers, and the community to environmental stewardship; and increase awareness and support for the Bay by focusing on how impacts within their community affect the health of the Bay and its tributaries. They seek grant funds to develop their first interactive educational module.

Results: The grant funds are being utilized for the development of their first interactive educational module. In accordance with the construction of the new high school, the teaching module shall be completed as a function of the school opening in 2015. The "Stormwater Story" will become the final teaching tool displayed throughout the kiosk system.

Amount granted: \$7,500.00

31 Stafford Ave.  
Stafford, VA 22554  
540-658-6540

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**Booker T. Washington Middle School**  
**Project #: 012-092**

Plan: Continuing with their 2011 grant application, Booker T. Washington Middle School proposes to harvest and plant oysters on a nearby reef. They are seeking funds for three field trips with Chesapeake Experience for their 7th grade Life Science students to aid them in the understanding of freshwater and brackish water habitats, ending with the planting of the grasses in their greenhouse and outdoor area; oyster spat and floats; a three day summer professional development session for teachers; and an overnight trip to Silver Beach for 30 students to explore the waters of the Bay.

Results: Teachers participated in a three day professional development program with Chesapeake Experience. Outings included York River State Park, Eastern Shore Visitors Center, Savage Neck Preserve, Kiptopeke State Park, and Grandview Nature Preserve. Buffer zones, vegetation, migratory bird routes, marshes and beach area, and species identification were all studied. Another component of the funding was upkeep and planting of oysters in floats.

Amount granted: \$1,800.00

3700 Chestnut Ave.  
Newport News, VA 23607  
757-928-6860, ext. 1104

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**E.S.H. Greene Elementary School**  
**Project #: 012-094**

Plan: E.S.H. Greene Elementary School seeks funds for 60 5th grade students with teachers to spend a day on the workboat "Baywatcher," which is part of the James River Program offered by the CBF.

Results: The grant afforded 20 fifth graders and their teachers the opportunity to participate in the *Baywatcher* part of the James River Program offered by the Chesapeake Bay Foundation. As a result of this trip, the firsthand experiences and newfound appreciation of the James River were shared by the student participants with approximately 100 third, fourth, and fifth graders.

Amount granted: \$2,562.00

1745 Catalina Dr.  
Richmond, VA 23224  
804-780-5082

**ORGANIZATION/GOVERNMENT EDUCATION**  
**YOUTH**

**Alexandria Seaport Foundation**  
**Project #: 000-005**

Plan: ASF proposes to work with the Youth Environmental Service Initiative (YES) program, which involves at-risk and adjudicated youth, to restore Hunting Creek. Participants will remove debris, non-native plants, and potential people/waterways hazards and then plant indigenous species.

Results: The ASF Wetland Remediation program has achieved a restoration effort within 94 acres of the Potomac watershed. They have hired eight environmental apprentices and involved 1,658 volunteers since 2000. Approximately 2,349 hours of volunteer service were given to the Seaport Foundation's wetland project. The first year of the expanded wetland program has been met enthusiastically by national and local media, schools and the community, national and local businesses, and elected officials.

Amount granted: \$2,400.00

Jones Point Park  
1000 South Lee St.  
Alexandria, VA 22314  
703-549-7078

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**Headwaters Soil & Water Conservation District**  
**Project #: 000-008**

Plan: Headwaters SWCD would like to send a leadership group of Augusta County 7th and 8th grade (Future Farmers of America) FFA officers to a Chesapeake Bay Foundation Workshop next summer. These students will receive information that will greatly impact the Bay when they begin farming.

Results: Headwaters District hosted 29 participants on a three day Chesapeake Bay Foundation field trip to Port Isobel. Twenty-one middle school and three high school agriscience students from three Augusta County schools and five teachers/adults learned about the Bay, water conservation, and nonpoint source pollution firsthand.

Amount granted: \$2,830.00

P.O. Box 70  
Verona, VA 24482-0070  
540-248-4328

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**Eastern Shore of Va. Resource Conservation & Development Council**  
**Project #: 000-011**

Plan: Eastern Shore RC&D Council proposes to create a "LIVING CLASSROOM" in the form of a wetland creation on the low-lying area of Accawmacke Elementary School to educate grades K-5 in the area wetlands and associated wildlife.

Results: The "Living Classroom" project located at Accawmacke Elementary School in Accomack County has provided an example of how to convert an area of unutilized space to a man-made, functioning wetland that provides a learning environment for the students. The wetland provides detention as a flood control measure and hands-on learning for the students.

Amount granted: \$2,850.00

P.O. Box 127  
Accomac, VA 23301  
757-787-2786

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**Chesapeake Volunteers In Youth Services, Inc./**  
**Chesapeake Bay Youth Conservation Corps**  
**Project #: 000-013**

Plan: CBYCC continues to combine environmental education for youth with public service projects such as water testing along the Elizabeth River, taking a workboat along the bay and its tributaries to clean the shoreline, work at military bases, local, state, and national parks, and assist other environmental organizations. The grant money will be used for personnel, fringe benefits, supplies, and travel.

Results: The fund supported the goals of teaching youth good work ethics through hands-on environmental community service projects. Many of the projects included submerged aquatic vegetation collection and planting, wetlands restoration, riparian enhancement, and seed collection for revitalization of Virginia Department of Forestry nurseries.

Amount granted: \$10,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8184

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**The Watermen's Museum**  
**Project #: 000-026**

Plan: The Watermen's Museum proposes to provide hands-on learning stations about the watermen, the Bay, ecology, and conservation regarding this environment for students in grades K-6th.

Results: The CBRF grant provided hands-on learning stations for education groups in grades kindergarten through sixth grade. The objectives were to teach participants about the watermen of the Chesapeake Bay and the ecology and conservation of the Chesapeake environment. A total of 1,537 students accompanied by 232 adults participated in the program. A total of 39 groups took part in the program.

Amount granted: \$5,000.00

P.O. Box 519  
Yorktown, VA 23690  
Phone #: 757-887-2641

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**Natural Bridge Soil and Water Conservation District**  
**Project #: 001-007**

Plan: Natural Bridge SWCD requests scholarships to send 12 local teachers to attend a workshop during the summer of 2001 at one of the Chesapeake Bay Foundation's island education centers.

Results: Eleven participants, local teachers and environmental educators, joined two Chesapeake Bay Foundation trip leaders for a five-day journey from Rockbridge County to the Bay. The training gave teachers the knowledge, skills, and impetus to teach others about their relationship to the Chesapeake Bay watershed.

Amount granted: \$2,300.00

30 E. Preston St.  
Lexington, VA 24450-2325  
540-463-7124, ext. 101



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**Friends of Bull Run, Inc.**  
**Project #: 001-009**

Plan: FoBR requests funding for a Freshwater Ecology Study program for high school students. FoBR will train and test students on the identification of macroinvertebrates found in Catlett's Branch and conduct field monitoring sessions.

Results: The grant provided financial support for a freshwater ecology study for high school students, teachers, and the general public. A Leica Zoom 2000 stereomicroscope, seven Magiscopes with Lumarods, and indestructible aquatic net, and a FlexiCam teaching camera were purchased. As a result of the equipment purchase, several successful workshops and teaching venues have increased the investigation of these streams.

Amount granted: \$3,000.00

P.O. Box 210  
Broad Run, VA 20137-0210  
703-753-2631

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**Mountain Castles Soil and Water Conservation District**  
**Project #: 001-013**

Plan: Mountain Castles SWCD proposes to increase the awareness of science students in Craig County and teachers (Grades 6-12) of the environmental dilemmas facing the Bay watershed and provide a greater understanding of the aquatic ecosystems.

Results: As a result of this study, several goals were accomplished: increased awareness of the environmental dilemmas facing the Chesapeake Bay watershed; provided students with a greater understanding of aquatic ecosystems and how agricultural, commercial, and private practices affect the Chesapeake Bay ecosystem; and fostered environmental stewardship attitudes and behaviors among Craig County students.

Amount granted: \$4,750.00

36 Executive Circle, Suite 1  
Roanoke, VA 24012  
540-977-2698, ext. 3

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**Va. Institute of Marine Science  
Sea Grant Marine Advisory Program  
(Outlook on Ocean Science)  
Project #: 001-029**

Plan: The Sea Grant Marine Advisory Program at VIMS proposes to expand their "Outlook on Ocean Science" program for secondary students to include a 90-minute, hands-on program focused on the integrated aspect of marine science and its application to real world problems using the Bay as a model.

Results: A total of 37 programs reaching over 940 students were presented. VIMS graduate students serve as instructors, providing school students direct contact with active scientists and an excellent opportunity for their graduate students to gain teaching experience. This award has provided educational enhancement for public schools and teaching experience for VIMS graduate students.

Amount granted: \$11,000.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7735

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**Alexandria Seaport Foundation  
Project #: 001-068**

Plan: ASF proposes for their wetland remediation project to use at-risk youth to work on two local impaired streams and to remove invasive plants and wetland herbaceous material grown in their nursery at Hunting Creek and Four Mile Run.

Results: The ASF Wetland Remediation program has achieved a restoration effort within 94 acres of the Potomac watershed. ASF hired eight environmental apprentices and 1,658 volunteers and 2,349 hours of volunteer service were given to the Seaport Foundation's wetland project. Over 100 school-age children were introduced to the wetlands of Dyke Marsh and 600 persons sailed on the ASF Dory Boat Potomac from the Washington Metropolitan area. New partnerships were established with such organizations as The Student Conservation Association, Retired Senior Volunteer Program, Argus House, and two new high schools by the national and local media, schools and the community, and by local businesses and elected officials.

Amount granted: \$3,000.00

Jones Point Park  
1000 South Lee St.  
Alexandria, VA 22314  
703-549-7078

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**Chesapeake Bay Foundation**  
**Project #: 001-069**

Plan: CBF proposes two upcoming courses focusing on Bay leadership to be made available next summer: a course in conjunction with Va. Tech aimed at Agricultural Education teachers in the state and a course for Central Virginia/Metro Richmond area teachers to learn about critical habitats in the Bay and techniques to ensure their protection and restoration. CBF also would provide an intensive course of study for students focusing on the environment through one of Virginia's Regional Governor's Schools.

Results: The funding for this project provided two professional development courses for teachers. One was focused on Agricultural Education teachers across the state in partnership with Virginia Tech University. The second targeted Central Virginia and Metro Richmond area teachers and focused on critical habitat in the Chesapeake Bay and their protection. Teachers received continuing education credit and graduate degree credit from the courses.

Amount granted: \$20,000.00

1108 E. Main St.  
Suite 1600  
Richmond, VA 23219  
804-780-1392

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**The Wintergreen Nature Foundation**  
**Project #: 001-075**

Plan: Wintergreen Nature Foundation proposes to provide onsite, hands-on stream ecology programs for up to 45 individuals at a time. The programs would include three outdoor, stream side classrooms, complete with educational displays, equipment for stream studies, and resource materials for teachers to continue the programs in their own classrooms.

Results: The Foundation as a result of this fund has planned and built three outdoor classrooms, with the seating capacity for 16 individuals. Since the completion of the classrooms, Foundation staff and volunteers have taken more than 600 students to teach them about water quality monitoring, macroinvertebrate identification, and the concepts of watersheds and their impact on the Chesapeake Bay. The Foundation has been able to recruit and train volunteers and develop a core group who are committed to water testing and issues associated with conservation and water quality and its effects on the Bay.

Amount granted: \$7,000.00

P.O. Box 468  
Nellysford, VA 22958  
804-325-7472

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**Va. Tech - Va. Cooperative Extension  
Dinwiddie & Greensville/Emporia Extension 4-H  
Project #: 001-088**

Plan: This proposal is identical to the grant received in 1997 regarding environmental education for 4-H teens in Dinwiddie except that the City of Greensville and Emporia County replaces Isle of Wight County and \$1,200.00 more is requested. Teens will visit Port Isobel for a three-day trip to experience marsh hikes, habitat studies, canoeing, commercial crabbing, and study the crisis of watermen dependent upon the Bay for their livelihood. They will also spend some time on Tangier learning about their island and talking with local watermen about crab shedding operations and life on the water.

Results: Seventeen teens and four adults from Dinwiddie and Greensville/Emporia participated in the Chesapeake Bay trip to Port Isobel. The information gained from the trip will provide educational programs for summer enrichment programs and summer camp classes.

Amount granted: \$3,200.00

P.O. Box 399  
Dinwiddie, VA 23841  
804-469-4514

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**Virginia Association of Soil & Water Conservation Districts Educational Foundation  
Project #: 002-003**

Plan: The VASWCD Educational Foundation proposes to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for educational and training materials, workshops, and competition expenses.

Results: The Virginia Envirothon winning team, the Harrisonburg High School Ecology Club, placed ninth out of 49 teams at the Canon National Envirothon in Amherst, Massachusetts. One hundred high school classrooms, 500 students, 37 Soil and Water Conservation Districts, five state agencies, and over 300 volunteers were represented at the Virginia Envirothon, a natural resources competition.

Amount granted: \$5,000.00

7293 Hanover Green Dr.  
Suite B-101  
Mechanicsville, VA 23111  
804-559-0324

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**Va. Tech - Department of Agricultural and Extension Education**  
**Project #: 002-025**

Plan: The goal of this project is to educate teachers about the Bay and its watershed and train them in the use of water quality testing equipment so that they can teach middle and high school Agricultural Education students methods of controlling runoff and erosion.

Results: Fifteen teachers of Agricultural Education in Virginia participated in the seven day hands-on field experience. Throughout the experience, the participants received instruction in water quality analysis, data collection and management, and the appropriate use of testing equipment. Teachers received a water quality test kit for instructing high school and middle school students of the importance of water quality, the impact of a watershed, and testing methods. The information was compiled and distributed to all participants as a curriculum resource for their instructional use.

Amount granted: \$7,500.00

268 Litton Reaves  
Blacksburg, VA 24061  
540-231-8187

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**Crater Planning District Commission**  
**Project #: 002-042**

Plan: CPDC proposes to prepare a ten-minute video program about the Appomattox River watershed to increase student understanding and awareness and promote better stewardship of the corridor's land and water.

Results: Crater PDC, in partnership with Friends of the Lower Appomattox River, formed a Watershed Video Education Working Committee. The committee developed a program outline and 38 copies of the tape, *Becoming a Friend of the Appomattox River*, was produced.

Amount granted: \$3,020.00

P.O. Box 1808  
Petersburg, VA 23805  
804-861-1666

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**Alliance for the Chesapeake Bay  
(S.E.E.D.S. Project)  
Project #: 002-053**

Plan: The Alliance seeks funding for the Stewardship and Environmental Education by Digging in Soil (SEEDS) program, which assists local urban groups of children and adults in establishing new ecological community gardens and strengthening existing ones in order to create urban awareness of watershed stewardship.

Results: Through this fund, the Alliance was able to form lasting community partnerships and successfully implement a community garden in a traditionally underserved community that will continue to serve as an interactive environmental classroom. S.E.E.D.S. (Stewardship and Environmental Education by Digging in Soil) purpose is to establish an ecologically sound community garden as a teaching venue for watershed stewardship in traditionally low-income communities. Located in Church Hill, Va., a traditionally underserved urban community located within a neighborhood district in the eastern end of the City of Richmond, the Tricycle Garden initiative demonstrates a successful model of an ecological community garden creating urban awareness of watershed stewardship to children and adults.

Amount granted: \$10,000.00

P.O. Box 1981  
Richmond, VA 23218  
804-775-0951

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**Va. Tech - Va. Cooperative Extension, Portsmouth 4-H  
Project: 002-101**

Plan: Portsmouth 4-H proposes to target 15 teens, with at least half being African American, to participate in a series of learning activities to equip them with the information, skills, and expertise to teach 100 youngsters ages 9-11 environmentally sound practices to avoid continued nonpoint pollution. They seek funding for a summer 4-H Camp and a trip to Port Isobel on the Eastern Shore.

Results: Sixteen teens were trained in how to teach others and develop lesson plans. They learned the basics of watersheds and nonpoint pollution through an interactive two-day workshop. Eighty percent of the teens attending the workshop felt that their teaching skills had improved as a result of the training.

Amount granted: \$4,145.00

105 Utah St.  
Portsmouth, VA 23701  
757-393-5197

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**National Audubon Society - Northern Neck Chapter**  
**Project: 002-102**

Plan: As in their 2001 application, NAS proposes to build a boardwalk of salt-treated lumber on the Hickory Hollow Nature Trail from the upland trail over to the viewpoint. The property is adjacent to the local high school and is used as an outdoor teaching lab.

Results: The grant was used to purchase materials for a 150' boardwalk, terminating in 6' x 12' observation platform in Cabin Swamp, Hickory Hollow Natural Area, Lancaster, Virginia. The boardwalk improves access through a nontidal wetland for individuals and groups to enjoy and study this unique wetland plant community without damaging the wetland. Construction was accomplished by an eight-person volunteer team that expended over 250 hours on this project.

Amount granted: \$2,400.00

P.O. Box 991  
Kilmarnock, VA 22482  
804-435-3355

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**Virginia Living Museum**  
**Project #: 003-006**

Plan: As in their 2002 application, the Museum wishes to continue to provide Discovery Boxes to inner city and rural schools by seeking funds to provide a one-week free rental of the boxes, which would include repairs and printing and mailing of the promotional materials.

Results: Funding from this grant made it possible for the Virginia Living Museum to help create a greater awareness of the natural history of the Chesapeake Bay by involving students from all over Virginia in exciting, hands-on learning through the Discovery Box program.

Amount granted: \$6,890.00

524 J. Clyde Morris Blvd.  
Newport News, VA 23601  
Phone #: 757-595-1900, Ext. 216

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation  
Project #: 003-024**

Plan: As in their 2002 grant application, the VASWCD Educational Foundation proposes to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for educational and training materials, workshops, and competition expenses.

Results: Envirothon is a natural resources competition for high school students. It promotes a desire for students to learn more about the natural environment and the stewardship of our natural resources. The sponsorship of Envirothon by the Virginia Association of Soil and Water Conservation Districts was made possible by partial funds from this grant.

Amount granted: \$5,000.00

7293 Hanover Green Dr.  
Suite B-101  
Mechanicsville, VA 23111  
804-559-0324

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**Fairfax Releaf, Inc.  
Project #: 003-027**

Plan: Fairfax Releaf proposes to plant trees and shrubs at the bottom of existing stormwater management ponds, build a rain garden at Rachel Carson Middle School, and educate students and stormwater managers to the benefits of and need for rain gardens rather than dry ponds in the area.

Results: Funds provided for the planting of 500 trees. They also provided the rock and shrubs for a rain garden that was built to collect water from school parking lots. Shrubs were purchased for a dry storm pond to provide improved water filtration and a no-mow area.

Amount granted: \$4,000.00

12055 Government Ctr. Pkwy.  
Suite 703  
Fairfax, VA 22035  
703-324-1409



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**Boxerwood Education Association, Inc.**  
**Project #: 003-041**

Plan: Boxerwood seeks funding for its Watershed Environmental Education Project to educate elementary school children at Boxerwood Gardens using local ecosystems and their watershed.

Results: The goal of the Watershed Environmental Education project was to educate school children in Lexington, Buena Vista, and Rockbridge Counties at Boxerwood Gardens using local ecosystems and their watershed as a focal point for community-based experiential learning. The project combined in-school education with activities in the field for hands-on ecology lessons to actively participate in learning about the local watershed, how it connects to the Chesapeake Bay, the interconnectedness and function of natural systems, and how they can actively work to protect its water quality. Approximately 1,500 to 2,000 elementary and middle level children and 50 teachers were involved in this project.

Amount granted: \$10,000.00

963 Ross Rd.  
Lexington, VA 24450  
540-463-2697

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**Va. Institute of Marine Science**  
**Sea Grant Marine Advisory Program**  
**(Outlook on Ocean Science)**  
**Project #: 003-068**

Plan: As in their 2000, 2001, and 2002 grant applications, the Sea Grant Marine Advisory Program at VIMS proposes to further expand their "Outlook on Ocean Science" program for high school students to include a 90-minute, hands-on program emphasizing the importance of submerged aquatic vegetation to the Bay ecosystem.

Results: The fund supports the *Outlook on Ocean Science* program, a high school outreach program. The fund enabled the scheduling of 14 programs and contact with over 400 students. Twenty-nine percent of those targeted the newly introduced program on submerged aquatic vegetation in the Chesapeake Bay and 57 percent of the honored requests were for the very popular Coastal Storms program. The remainder of the program was marine career orientation.

Amount granted: \$2,780.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7735

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**Mattaponi & Pamunkey Rivers Association, Inc.**  
**Project #: 003-076**

Plans: MPRA proposes to work with school groups in the watershed to regrant six \$1,000.00 minigrants to schools in their surrounding counties. They will provide materials, presentations, and offer canoe trips for watershed school experiences. Schools would have the option of using the \$1,000.00 grant for teacher or student on the water programs offered by MPRA, materials for setting up a shad tank in the classroom, water quality monitoring equipment, stream restoration work, schoolyard habitat/Bayscape demonstrations, or being trained in the Dept. of Game and Inland Fisheries' Wildlife Mapping program and then taking a birding trip on the water trail, which is part of the Virginia Birding Trail.

Results: MPRA's "Schools of Shad" is an educational project to raise awareness of the unique heritage and fisheries of the Mattaponi and Pamunkey Rivers. The funding used for the project focused on working with sixth and seventh grade and high school students to pilot shad grow-tanks and underwater grass grow-tanks, monitor Jacks Creek near King William High School, stimulate an interest in the American shad through participation in *Mad about Shad* (an MPRA public arts initiative), participation in the River of Words contest and ShadFair, and an open house focusing on the rivers co-sponsored by the Hamilton-Holmes PTSA.

Amount granted:       \$5,000.00

P.O. Box 157  
Walkerton, VA 23177  
804-769-0841

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**Undersea Research Foundation, Inc.**  
**Project #: 003-078**

Plan: The Foundation proposes to produce a video entitled "Journey Under the Chesapeake." They seek funds to cover the cost of obtaining the additional footage required for this project, editing, equipment to obtain video through a microscope, and the reproduction of 100 copies of the final product to be distributed in the public school system.

Results: The funds to support the project of a DVD containing three educational videos of the Chesapeake Bay were partially supplied from the CBRF. Three videos were produced: "Under the Chesapeake," "Chesapeake Blueways," and "Chesapeake Bay Video Library."

Amount granted:       \$5,000.00

P.O. Box 696  
North, VA 23128  
804-725-5744

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**The Mariners' Museum**  
**Project #: 003-080**

Plan: The Museum proposes to implement an outreach program on the road by noted Bay scholar, storyteller, and singer, Bob Zentz by providing 30 two-hour classroom sessions that will focus on the Bay and its heritage--social, historical, and environmental--and convey learning about the Bay to school children throughout Hampton Roads.

Results: The Mariners' Museum proposed to implement an outreach program, designed to complement the Virginia Standards of Learning for public schools that focused on the Chesapeake Bay and its social, historical, and environmental heritage. Norfolk-based singer-songwriter Bob Zentz was the perfect teacher for the program. Mr. Zentz presented his program to 1,765 students as an outreach program and reached approximately 1,366 children and adults in onsite programs in the Museum's Chesapeake Bay Gallery. Approximately 3,131 students and adults took advantage of the program.

Amount granted: \$6,000.00

100 Museum Dr.  
Newport News, VA 23606-3759  
757-591-7740

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**Virginia Marine Science Museum**  
**Project #: 003-084**

Plan: VMSM proposes a two-part outreach program for grades 3-6 by creating auditorium and station-based classroom programs on loggerhead sea turtles and bottlenose dolphins and pilot this new program free-of-charge to four underprivileged schools for evaluation from teachers and students.

Results: With the help of the fund, the Virginia Aquarium has developed an assembly program that fuses a scripted play, student interaction, and audio visual elements into a unique learning experience for elementary students. The program was developed as an outreach program because of difficulty of school field trips and to accommodate assembly-sized audiences to include as many students as possible.

Amount granted: \$6,000.00

717 General Booth Blvd.  
Virginia Beach, VA 23451  
757-437-4749

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**Hoffler Creek Wildlife Foundation, Inc.**

**Project #: 003-090**

Plan: Hoffler Creek is requesting funds to develop a new program for children linking the humanities to the sciences. The goal of the program is to involve grades K-5 in activities that will stimulate an appreciation for their natural heritage and a determination to safeguard the living resources that define it.

Results: The Foundation used grant funds to plan and execute an "edutainment" program for children ages 4 to 10. The goal of linking children to their cultural and natural heritage by engaging them in four programs was met. Professional actors and musicians led the children in activities that acquainted them with the natural links between humans and the plants and animals living in the Chesapeake Bay watershed.

Amount granted: \$10,000.00

505 Washington St., Suite 404  
Portsmouth, VA 23704  
757-398-9151

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**Chesapeake Bay Foundation**

**Project #: 003-092**

Plan: CBF is requesting support for their Virginia Field Education Program, which is a variety of field trips to help improve classroom instruction, student performance, connect students and teachers to the Bay and local tributaries, enable schools and communities to take stewardship actions, contribute to restoration goals, and encourage participants to become lifelong conservation stewards.

Results: Through field programs, teacher training, and curriculum modules, CBF in Virginia involved over 400 classrooms and 12,000 students during the period of this grant. Teachers and students received hands-on Bay experiences that are complimented with curriculum and other related materials for use in the classroom and community. Partnerships with local, state, and nongovernmental agencies and organizations helped to expand CBF's program and provided technical support and training to support field and restoration programs. Students and teachers were given tools to become lifelong stewards of the Bay.

Amount granted: \$28,478.00

1108 E. Main St., Suite 1600  
Richmond, VA 23219-3539  
804-780-1392

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**Eastern Shore Soil and Water Conservation District**  
**Project #: 003-095**

Plan: The Eastern Shore SWCD proposes for their Shoreline Stewardship Campaign to develop a positive message about the critical interface between the land and water. They seek funds for a design contest in the area high schools to create a graphic to be incorporated in shoreline signs posted at each waterfront access site and volunteers for site cleanups would be given T-shirts with the shoreline logo.

Results: Grant monies were used to successfully coordinate a regional multi-site cleanup effort during the International Coastal Cleanup. Funds were used to advertise for volunteers for several cleanup events and to report on the cleanup in special newspaper supplements that were published by the Eastern Shore Environmental Education Council. Significant progress was made with various concerned groups and citizens who elevated local concerns and actions to address shoreline litter problems. One site was adopted under the Adopt-A-Stream program and three barrier island sites and three public access sites have been added to the annual cleanup list.

Amount granted: \$2,500.00

22545 Center Parkway  
Accomac, VA 23301-1330  
757-787-3581, Ext. 119

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**Alexandria Seaport Foundation**  
**Project #: 003-100**

Plan: ASF seeks funds for their environmental programs to provide education for youths on their boats and local streams. They will implement habitat garden projects, update the public on water quality issues through community watershed workshops, educate landowners on nutrient reduction strategies, and use interpretive outreach exhibits for their Seaport Day.

Results: The Foundation used the grant funds to support environmental education programs on the Potomac River on board the 42' Dory Boat Potomac and through the "Grasses for the Masses" program in combination with the Chesapeake Bay Foundation.

Amount granted: \$7,500.00

P.O. Box 25036  
Alexandria, VA 22313  
703-684-9449

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**Friends of Norfolk's Environment, Inc.**  
**(The Norfolk Environmental Commission)**  
**Project #: 003-102**

Plan: Friends request funds to construct an interpretive walkway with educational signs that would extend over Norfolk's Knitting Mill Creek. They also seek funds for plant and educational materials. A major goal of this project is to teach students from Norfolk High Schools about the value of wetlands, how they become affected by various urban land uses, and how their restoration impacts the ecology of the Bay.

Results: The fund successfully completed enhancements to the small wetland cove at the corner of 46th Street and Colley Avenue in Norfolk. Funds were used for vegetation, soil amendments, and mulch to support the enhancement of the wetland. A total of 53 volunteers, three employees from Adams Outdoor Advertising, and one city staff person worked approximately four hours for a total of 254 man-hours. The wetland cove is now healthier with a proper balance of native species on the banks and in the upland areas surrounding the water. A better view of the wetland from the street allowed for a more aesthetic view of the creek while wildlife and vegetation were increased.

Amount granted:       \$1,900.00

3500 Granby St.  
Norfolk, VA 23504  
757-441-1347

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**Oyster Reef Keepers of Virginia**  
**Project #: 003-115**

Plan: Through the student oyster reef restoration program, grades 3-12, students visit their oyster site monthly to measure oyster growth rates, quantify oyster mortality, monitor the water chemistry in their tributary, and clean and maintain their oysters and sampling equipment. ORKV seeks funding for 400,000 oysters, replacement data sheets and educational materials for schools, replacement and repair materials for oyster floats and mesh bags, postage, and travel.

Results: The environmental success of oyster stocking activities has been demonstrable in the past. Multiple scientific studies have concluded that the addition of one-year old reproductive oysters onto these sanctuary reefs is an effective means to increase oyster reproduction and oyster population development on the reefs and the fund helps support this effort.

Amount granted:       \$8,000.00

P.O. Box 245  
Gloucester Point, VA 23062  
804-721-8806

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**Natural Bridge Soil and Water Conservation District**  
**Project #: 004-012**

Plan: As in their 2002 and 2003 grant applications, Natural Bridge SWCD proposes to send 12 local students and teachers in Rockbridge County to attend a five-day workshop during the summer of 2004 at one of the Bay's island education centers.

Results: The fund provided 12 high school students and leaders with paid scholarships to attend a six-day student leadership field trip. The Blue Ridge to the Bay trip followed a course beginning in Rockbridge County, traveling down to the Richmond/Northern Neck area, and ending at the Smith Island Education Center. The study included watershed principles, influences on water quality, aquatic and estuarine ecology, local resource, programs, and impacts.

Amount granted: \$5,000.00

40 Magnolia Sq. Way, Suite 5  
Lexington, VA 24450  
540-463-7124, Ext. 101

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation**  
**Project #: 004-019**

Plan: As in their 2002 and 2003 grant applications, the VASWCD Educational Foundation proposes to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for educational and training materials, workshops, and competition expenses.

Results: The fund sponsored the Virginia Envirothon on the Campus of James Madison University. Envirothon features five "in-the-field" test stations, soils, wildlife, aquatics, forestry, and current environmental issue, where teams answer questions in both written and hands-on formats. The intense study required for this contest helped students prepare for college entrance exams, as well as possible careers in fields associated with natural resources.

Amount granted: \$5,000.00

9501 Mason Creek Rd.  
Norfolk, VA 23503  
757-531-310

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**Earth Force, Inc.**  
**Project #: 004-040**

Plan: As in their 2003 grant application, Earth Force seeks funds for their GREEN Teacher Institute program, which will train 20 educators in Northern Va. to focus on creating integrated educational experiences for young people on the protection of the Bay watershed and the need to engage students in applications for their environmental science work.

Results: The Earth Force GREEN program has helped educators in Northern Virginia meet new Standards of Learning in science related to watershed knowledge, assessment, analysis, and protection as a result of the fund. Earth Force has provided training and professional development to 46 educators, coordinated water monitoring studies with participating educators, and expanded their environmental partnership network. Earth Force GREEN has engaged 18 schools and the work continues to grow.

Amount granted: \$7,680.00

1908 Mt. Vernon Ave.  
2nd Floor  
Alexandria, VA 22301  
703-519-6861

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**Friends of the North Fork Shenandoah River**  
**Project #: 004-043**

Plan: Sandy Hook Elementary School 4th graders have requested Friends to teach their Groundwater Education Program, which focuses on groundwater and the risks and links between the karst terrain in local watersheds and the Bay.

Results: The program is well-established in Shenandoah County, where it had been held for the past three years for fourth graders. Groundwater information is being dispersed to a larger audience through the students and the county teachers have a firmer grasp of the issues. The Groundwater Education Program addresses the Chesapeake Bay 2000 Agreement goal of Stewardship and Community Engagement by providing instruction about water resource stewardship directly to students while indirectly engaging their families. The Shenandoah County Public School District integrated water resource education with the SOLs for watershed topics, geology, and the scientific method.

Amount granted: \$2,200.00

P.O. Box 746  
122 S. Commerce St.  
Woodstock, VA 22664  
540-459-8550



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**Henricopolis Soil and Water Conservation District**  
**Project #: 004-087**

Plan: As a result of the Bay 2000 Agreement, Henrico SWCD, in partnership with Henrico Public Schools, proposes an "Environmental Exploration Camp" for middle school students and teachers with the knowledge and experiences that will increase their understanding of the Bay, its processes, and watershed.

Results: The fund provided a summer learning opportunity for middle school students to learn about their own watershed and how their actions affect not only their own watershed, but also the quality of the Chesapeake Bay. The program "From Your Backyard to the Bay" helped students learn about the urban ecosystem and its impact on the watershed with professional lectures on wildlife and habitats, forestry, recycling, agriculture, aquatics, and more. Field trips also enhanced the learning experience.

Amount granted: \$1,500.00

8600 Dixon Powers Dr.  
Richmond, VA 23228  
804-501-5175

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**Chesapeake Volunteers in Youth Services**  
**Project #: 005-013**

Plan: As in their 2003 and 2004 grant applications, CBYCC proposes to conduct four weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 10 youths and 240 hours of community service.

Results: The funds were used by 25 youth to cleanup and enhance the bay area at Chippokes State Park. They provided over 500 hours at Chippokes repairing trails and bridges, cleaning the shoreline, and improving the trails.

Amount granted: \$6,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8197

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**Crater Planning District Commission**  
**Project #: 005-042**

Plan: CPDC proposes to prepare a 10-minute PowerPoint program and display panels about the Appomattox River watershed to increase student understanding and awareness and promote better stewardship of the corridor's land and water. The PowerPoint program CD will be duplicated and distributed to six middle schools.

Results: Crater PDC received a grant from CBRF for the production of a CD and education display panels. The final Watershed and Nonpoint CD was completed in May. The project's purpose was to increase public understanding and awareness regarding the Appomattox River watershed and to promote better stewardships of the watershed's land and water.

Amount granted: \$1,070.00

P.O. Box 1808  
Petersburg, VA 23805  
804-861-1666

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation**  
**Project #: 005-043**

Plan: As in their 2002, 2003, and 2004 grant applications, the VASWCD Educational Foundation proposes to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for educational and training materials, workshops, and competition expenses.

Results: The fund continued to support Envirothon which is a natural resources competition for high school students. The Fort Defiance Team placed first as the state champions and will represent Virginia at the Canon North American Envirothon to be held at Southwest Missouri State University in Springfield, Missouri.

Amount granted: \$8,000.00

7293 Hanover Green Dr.  
Suite B-101  
Mechanicsville, VA 23111  
804-559-0324

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**Headwaters Soil and Water Conservation District (Smith Island Trip)**  
**Project #: 005-046**

Plan: As in past grant applications, Headwaters SWCD would like to send high school students on a three-day field trip with meals to Smith Island through the Chesapeake Bay Foundation. The Envirothon topic for this year emphasizes the intersection of cultural resources and natural resources.

Results: There were 18 participants to Fox Island (instead of Smith Island, due to CBF scheduling) with the Chesapeake Bay Foundation. Comprised of local teens, including Envirothon teams and several young natural resource professionals who helped to lead Envirothon, the fund covered the tuition.

Amount granted: \$1,900.00

P.O. Box 70  
Verona, VA 24482-0070  
540-248-4328, Ext.3

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**Virginia Institute of Marine Science**  
**Sea Grant Marine Advisory Program (Outlook on Ocean Science)**  
**Project #: 005-058**

Plan: As in their 00-04 grant applications, the Sea Grant Marine Advisory Program at VIMS proposes to further expand their "Outlook on Ocean Science" program for high school students to include a 90-minute, hands-on program emphasizing the importance of submerged aquatic vegetation to the Bay ecosystem. For the 2005-2006 school year, VIMS will partner with two schools in the Tidewater area with an emphasis on targeting populations underrepresented in the marine sciences.

Results: The *Outlook on Ocean Science* program delivered a total of 38 programs, making face-to-face contact with 726 students and teachers. Five schools were reached with multiple visits. Of the 38 programs, 24 percent covered the Coastal Storms topic and 76 percent presented Careers in Marine Science. In 2006/2007, the extended program allowed visits to additional schools reaching 115 students and teachers and provided a program for the College of William and Mary's Center for Gifted Education.

Amount granted: \$5,000.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7172

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**Oyster Reef Keepers of Virginia**  
**Project #: 005-066**

Plan: As in their 2003 and 2004 grant applications, ORKV seeks funding for 400,000 oysters, replacement data sheets and educational materials for schools, replacement and repair materials for oyster floats and mesh bags, and \$5,000.00 for salary. Students visit their oyster site monthly to measure oyster growth rates, quantify oyster mortality, monitor the water chemistry in their tributary, and clean and maintain their oysters and sampling equipment.

Results: In addition to the resource restoration data, the "Schools Restoring Oysters to the Chesapeake" has been a tremendous tool for public education and stewardship development. The program has cumulatively touched 44,500 students in Virginia since the programs origin. With the projects educational component, oysters have been used to teach students about water quality and environmental decline in the Chesapeake, but also their contribution of the restoration of the waterway. In May 2006, Oyster Reef Keepers of Virginia received the 2006 Virginia Environmental Education Award from the Virginia Resource-Use Education Council (VRUEC) for their efforts to involve schools in oyster reef restoration in the state of Virginia.

Amount granted: \$12,000.00

P.O. Box 55201  
Virginia Beach, VA 23471  
804-721-8806

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**Maymont Foundation**  
**Project #: 006-009**

Plan: The Maymont Foundation proposes for their James River Ecology and Restoration course to train high school students in aquarium science and related environmental, natural, and physical science disciplines.

Results: The James River Ecology and Restoration Course was successful and met its goals of providing in-depth, interactive experiences in aquatic ecosystems to a targeted group of students (grades 8-12). With an emphasis on middle and high school students, Maymont was able to serve children who had less access to Maymont and to expand outreach to home-schooled children. Evaluations indicated that students learned SOL-based material, received access to new career and college major opportunities, and became more aware of the conservation and restoration of the James River ecosystems. Some of the coursework developed in this program will be integrated into other Maymont programs.

Amount granted: \$1,875.00

1700 Hampton St.  
Richmond, VA 23220  
804-358-7166, Ext. 325

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**Citizens of Stumpy Lake  
Project #: 006-021**

Plan: The Citizens of Stumpy Lake request funds for developing an outdoor environmental education classroom area for schools on the property of the City of Virginia Beach's Stumpy Lake Natural Area.

Results: As a result of this grant, development on the Stumpy Lake Nature Trail began in 2005 by members of the Citizens for Stumpy Lake in accordance with the Master Plan of the City of Virginia Beach. The Citizens are working with the City of Virginia Beach to have this natural wilderness area open and available to the public. Twenty-six boy scouts from Troop 401, parents, and the Scout leader volunteered for the project.

Amount granted: \$2,652.00

1813 Barkading Ct.  
Virginia Beach, VA 23464  
757-479-3133

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation  
Project #: 006-023**

Plan: As in their 02-04 grant applications, the VASWCD Educational Foundation proposes to continue to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for educational and training materials, workshops, and competition expenses.

Results: The grant continues to sponsor the Virginia Envirothon, a natural resources competition. The students who participate in Envirothon have a desire to promote the stewardship of natural resources and to learn more about the natural environment. The state champion, Fort Defiance High School will represent Virginia at the Canon Envirothon in Winnipeg, Manitoba.

Amount granted: \$8,000.00

7308 Hanover Green Dr.  
Suite 100  
Mechanicsville, VA 23111  
804-559-0324

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**Culpeper Soil and Water Conservation District (Soil Tunnel)**  
**Project #: 006-024**

Plan: Culpeper SWCD proposes to build a model of a "Soil Tunnel" for their elementary and middle schools in five counties. Their goals are to educate youth on soils, plants, and animals and train teachers to use the tunnel in their classrooms.

Results: The grant provided the funds for the Soil Tunnel, a 3-D interactive model to educate young people on soils. The Soil Tunnel addressed Standards of Learning (SOL) for third, fourth, and sixth grades. Topics presented with the Soil Tunnel included soil layers and types, animals, and plants.

Amount granted: \$3,650.00

351 Lakeside Dr.  
Culpeper, VA 22701  
540-825-8591

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**Culpeper Soil and Water Conservation District (Good Farm/Bad Farm)**  
**Project #: 006-025**

Plan: Culpeper SWCD proposes to manufacture a three-dimensional mockup depicting two different scenes: "Good Farm" and "Bad Farm." Their goal is to improve water quality on the farm by representation of BMPs in the field. The display will be used for teaching and education at school fairs, will be shown at five county fairs, and in the classrooms of interested teachers.

Results: The fund was used to replicate the "Good Farm/Bad Farm" educational model originally designed by the Hanover/Caroline SWCD. The model will be used at educational field days for third and sixth graders. It is also intended as a platform for promoting the Virginia Agricultural Cost-Share Program to local farmers and county administrators.

Amount granted: \$4,450.00

351 Lakeside Dr.  
Culpeper, VA 22701  
540-825-8591

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**Chesapeake Volunteers in Youth Services**  
**Project #: 006-028**

Plan: As in their 03-05 grant applications, CBYCC proposes to continue to conduct four weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 10 youths and 240 hours of community service.

Results: Funding allowed Chesapeake Volunteers in Youth Services to provide six weekend camping trips to Chippokes State Park for approximately 50 youth. They provided over 750 hours of community service to the park for clean-up efforts. They cleaned along the shoreline, improved paths and hiking trails, repaired foot bridges, and built new trails.

Amount granted: \$6,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8184

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**James City County**  
**Division of Parks and Recreation**  
**Project #: 006-039**

Plan: As in their 02-05 grant applications, James City County Parks and Recreation requests funds for supplies and an instructor with a background in environmental education and knowledge of the Bay to lead their Chesapeake Water Marshals Camp, which is an eight-week program, three days a week. The camp focuses on the importance of preserving the natural resources of the Bay and its watershed. As in 2004 and 2005, they would also like to offer the program to the Days of Discovery Special Needs Summer Camp. The curriculum for the camp will be slightly different from last year to reflect yearly changes so that repeat campers can learn new information.

Results: The grant paid for supplies and an environmental education instructor for a Chesapeake Water Marshals Camp. The camp, which ran for three days, exposed over 600 children from several different summer campsites to the importance of preserving the natural resources of the Bay and its watershed. The hugely successful program resulted in an increased knowledge of the Bay, the harmful effects of pollution, and the different inhabitants that live in the delicate watershed.

Amount granted: \$5,432.00

5300 Palmer Lane, Suite 1A  
Williamsburg, VA 23188-2674  
757-259-5352

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**The Poquoson Historical & Cultural Museum Foundation**  
**Project #: 006-075**

Plan: As in their 2005 grant application, the Poquoson Museum seeks funding to continue to restore the Topping Creek marsh that borders the Museum's Dryden Farm via the removal of abandoned equipment and debris, engineering/architectural fees to ensure the trail meets ADA and city code requirements, and construct a boardwalk and trail system to meet ADA, NPS, and AAM standards. Their main goal is to teach visitors and students about the role of marshland in maintaining the Bay.

Results: The fund helped the continuation of the restoration of the Topping Creek marsh trail that borders the Museum's Dryden Farm.

Amount granted: \$7,500.00

P.O. Box 2163  
Poquoson, VA 23662-1337  
757-879-3420

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**Capital Region Earth Force**  
**Project #: 007-004**

Plan: As in their 03-04 grant applications, Earth Force seeks funds for their GREEN Teacher Institute program, which will train 50 educators in Northern Va. to focus on creating integrated educational experiences for young people on the protection of the Bay watershed and the need to engage students in applications for their environmental science work.

Results: The fund is currently supporting the Global Rivers Environmental Education Network (GREEN), a watershed education and training program coordinated by Earth Force in Alexandria, Virginia. The awarded proposal outlined several measures of progress pertaining to teacher professional development and the incorporation of Meaningful Watershed Educational Experiences into the science curriculum. The measures included recruiting new educators to participate in the program, providing educators with training and ongoing support, and fostering a growing network of partners to support watershed stewardship programs.

Amount granted: \$7,000.00

1908 Mt. Vernon Ave., 2nd Fl.  
Alexandria, VA 22301  
703-519-6867



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**Longwood Center for Economic Education**  
**Project #: 007-006**

Plan: LCEE proposes for 20 K-12 teachers a one-week camp on environmental economic education that combines classroom instruction, hands-on activities, and field studies. The teachers would be tested and are responsible for making a presentation in their own school to further disseminate the information.

Results: Longwood Center for Economic Education (LCEE) is a teacher training facility that offers innovative opportunities to K-12 educators. The fund allowed LCEE to run two programs for K-12 educators: "The Chesapeake Bay, Economics, and the Environment" at Longwood and "Waving our Rivers and Bays with Dollars and Sense" in Richmond. The two programs resulted in a total of 945 contact hours of training for 27 Virginia teachers. The programs incorporated lecture, video, articles, hands-on activities, children's literature, a field experience with the Chesapeake Bay Foundation, and training from Clean Virginia Waterways.

Amount granted: \$6,000.00

College of Business and Economics  
Longwood University  
Farmville, VA 23909  
434-395-2372

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**Chesapeake Volunteers in Youth Services**  
**Project #: 007-011**

Plan: As in their 03-06 grant applications, CBYCC proposes to continue to conduct four weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 10 youths and 240 hours of community service.

Results: Funding from the fund provided opportunities for 45 youth to experience weekend camping and environmental training while working on trails and clean-up activities at Chippokes and First Landing State Parks. Their agency has adopted trails along the shoreline at Chippokes which they maintain and enhance on an ongoing basis. The youth also clean the shoreline of any debris, trash, and brush from storms or littering. Over 800 hours of service has been provided to the parks.

Amount granted: \$6,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8184

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**James City County**  
**Division of Parks and Recreation**  
**Project #: 007-017**

Plan: As in their 02-06 grant applications, James City County Parks and Recreation requests funds for supplies and an instructor with a background in environmental education and knowledge of the Bay to lead their Chesapeake Water Marshals Camp, which is an eight-week program, three days a week. The camp focuses on the importance of preserving the natural resources of the Bay and its watershed. As in 04-06, they would also like to offer the program to the Days of Discovery Special Needs Summer Camp. The curriculum for the camp will be slightly different from last year to reflect yearly changes so that repeat campers can learn new information.

Results: The funds paid for supplies and an environmental education instructor for a Chesapeake Water Marshals Camp. The camp, which ran over three days, exposed over 600 children from several different summer campsites to the importance of preserving the natural resources of the Bay and its watershed. The hugely successful program resulted in an increased knowledge of the Bay, the harmful effects of pollution, and the different inhabitants that live in the delicate watershed.

Amount granted:       \$3,720.00

5300 Palmer Lane, Suite 1A  
Williamsburg, VA 23188-2674  
757-259-5412

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**Monacan Soil and Water Conservation District**  
**Project #: 007-018**

Plan: As in their 1996, 1997, 1998, 2001, and 2003 grant applications, Monacan SWCD proposes to use the funds to help defray the costs for their Conservation Days Program to be held at the Powhatan Wildlife Management Area. The program will provide over 300 7th graders a hands-on educational experience concerning water and soil education and conservation. They seek funds for batteries, water, ice, cups, two Porto-Johns, and educational materials and handouts.

Results: Monacan's Conservation Day program was held at Salem Christian School in Goochland. Approximately 60 kindergarten children through fifth grade students were rotated through six environmental stations. Students were provided with a packet of age-appropriate puzzles and games dealing with topics such as soil, pollution, and wildlife. The teachers used them for follow up and review activities. The program proved to be highly successful.

Amount granted:       \$265.00

P.O. Box 66  
Goochland, VA 23063  
804-556-4936

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation  
Project #: 007-028**

Plan: As in their 2002, 2003, 2004, and 2006 grant applications, the VASWCD Educational Foundation proposes to continue to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for educational and training materials, workshops, and competition expenses. New for 2007, they also seek funds for additional materials for their "Envirothon Resource Trunks," which are loaned to local soil and water conservation districts for training students, teachers, and adults.

Results: The Foundation is committed to providing educational opportunities to citizens across the Commonwealth to become good stewards of our environment and natural resources for the benefit of all. The fund was the keystone to these efforts as the Envirothon and Natural Resource Training workshops, Envirothon Resource Trunks, and the Envirothon competition itself was instrumental in providing these opportunities. An estimated 140 teams participated in the Commonwealth's Envirothon competitions and approximately 600 students participated in the Envirothon.

Amount granted: \$8,000.00

7308 Hanover Green Dr.  
Suite 100  
Mechanicsville, VA 23111  
804-559-0324

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**Winchester Virginia Chapter of Trout Unlimited**  
**Project #: 007-038**

Plan: TU proposes for their "Trout in the Classroom" program to set up an aquarium and incubate trout eggs in five high school classrooms in Clarke and Frederick Counties. Teachers and students are responsible for daily maintenance and observation of the eggs, while the Trout Coordinator is responsible for obtaining permits and locating a certified egg source. The trout fry will be released into a state-approved body of water in the Bay watershed during a class field trip. They seek funding for the supplies needed to initiate the program in five high schools.

Results: The fund established a highly successful "Trout in the Classroom" program in Frederick and Clarke Counties in Northwestern Virginia. Aquariums with chiller units have been purchased and placed in six area middle and high school classrooms and participating teachers and students are raising brook trout from fertilized eggs supplied by the Virginia Department of Game and Inland Fisheries. The fund provided the opportunity to repopulate brook trout in Virginia streams that historically held the native species.

Amount granted: \$4,250.00

309 Huntersridge Rd.  
Winchester, VA 22602  
540-722-4914

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**Spotsylvania County**  
**Department of General Services**  
**Project #: 007-043**

Plan: As in their 2006 grant application, Spotsylvania County proposes to create a meaningful watershed experience for students through field investigations, environmental education, and environmental enhancement activities that will result in youth stewardship of the Bay and its watershed. The requested funds are for personnel overtime, travel, fuel, four van rentals, lodging, supplies, T-shirts, and an admission fee for 50 participants to the Mariner's Museum.

Results: Spotsylvania County's *Journey through the Chesapeake Bay* and its Watershed program met its goal to create a Meaningful Watershed Educational Experience for students through field investigation, environmental education, and environmental enhancement. The developed activities resulted in youth stewardship of the Chesapeake Bay and its watershed and increased overall environmental awareness. The awareness was supported by the increase in student average tests scores from the beginning to the completion of the camp.

Amount granted: \$9,000.00

P.O. Box 99  
Spotsylvania, VA 22553  
540-507-7709

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**Science Museum of Western Virginia**  
**Project #: 007-055**

Plan: The Museum, through their "ROOTS OF A WATERSHED" program, proposes to educate students of all ages as to how their decisions and the decisions on the use of the land around them impact watersheds through in-museum tours, classes, and Into-the-Stream field trips. The students will be studying erosion control and natural resources associated with environmental protection, water quality, and stream ecology.

Results: The fund provided vital support for the Museum's watershed education classes. With the equipment provided through this grant, the Museum was able to serve students across central, southern, and western Virginia and teach them about their role in preserving the health of the Chesapeake Bay.

Amount granted: \$5,921.00

One Market Square, 4th Floor  
Roanoke, VA 24011  
540-857-4396

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**Hampton Roads Planning District Commission**  
**Project #: 007-086**

Plan: HRPDC proposes to reach school-aged children in Hampton Roads with a regionally consistent pollution prevention message, increase awareness and knowledge of pollution prevention, as well as encourage personal stewardship, and gauge the effectiveness and impacts of targeting school-aged children with environmental education and calls to action. They seek funds for educational materials, the distribution of an environmental tabloid/newspaper to all 3rd and 4th grade classrooms in Hampton Roads, and provide background and supplemental information in the form of a teacher's guide.

Results: The original grant application was for a pollution prevention educational tabloid focused on stormwater, ensuring a regionally consistent message to children, residents, and businesses. The localities work together to address not only stormwater but water conservation, litter abatement, and recycling, as well as proper disposal of fat, oil, and grease. The creation of a tabloid style newspaper allowed each committee to focus on their educational objectives, while tying the issues together to illustrate the cumulative impacts on the environment.

Amount granted: \$7,189.00

The Regional Building  
723 Woodlake Dr.  
Chesapeake, VA 23320  
757-420-8300

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**Wildlife Center of Virginia**  
**Project #: 007-088**

Plan: The Wildlife Center proposes to create a "Chesapeake Bay" program for 35 Title I elementary schools to help children see the environment through the eyes of wildlife by bringing non-releasable animals to each program. By hearing the environmental message behind each animal's story, the children are able to connect more deeply the importance of protecting wildlife and the environment. They seek funding for research/development, supplies, evaluation, promotion costs, and the fees for 70 programs.

Results: The Wildlife Center marked its 25th anniversary of service to Virginia wildlife. More than 2,300 animals were admitted for treatment from all across Virginia. The educators shared important messages of wildlife conservation and environmental protection with thousands of school children. They provided training in the Waynesboro Clinic for veterinary and wildlife care professionals from across the United States and the world. The Center received the prestigious National Conservation Achievement Award for conservation work from the National Wildlife Federation. The fund helped to accomplish this.

Amount granted: \$4,000.00

1800 S. Delphine Ave.  
P.O. Box 1557  
Waynesboro, VA 22980  
540-942-945

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**Henricopolis Soil and Water Conservation District**  
**Project #: 007-090**

Plan: Henricopolis SWCD proposes to assemble an Envirothon resource trunk for each Envirothon coach, identify potential Envirothon participants and assure them Henricopolis SWCD can provide the resources needed for a successful program, and host an Envirothon workshop for teachers to make them aware of the program and to demonstrate the resources available to them. They seek funding for 10 Envirothon Resource Kits and provide for 45 students to attend workshops.

Results: Henricopolis SWCD developed an organized local Envirothon program implementation schedule and organized resources for teachers, coaches, and students. All program information and electronic resources were compiled and made available online at [www.co.henrico.va.us/envirothon](http://www.co.henrico.va.us/envirothon). With grant funding, Envirothon kits were assembled and made available to each high school and any interested Envirothon coach within the county.

Amount granted: \$5,025.00

8600 Dixon Powers Dr.  
Richmond, VA 23228  
804-501-5175

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation**  
**Project #: 008-010**

Plan: As in their 2002, 2003, 2004, 2006, and 2007 grant applications, the VASWCD Educational Foundation proposes to continue to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for educational and training materials, workshops, competition expenses, and additional materials for their "Envirothon Resource Trunks," which are loaned to local soil and water conservation districts for training students, teachers, and adults.

Results: The outreach of the Envirothon program continues to increase each year. More than 40 individuals, Envirothon coaches, teachers, district staff, and resource professionals, attended the training workshop at Camp Blue Ridge. An estimated 140 teams participated in the Commonwealth's Envirothon competitions and approximately 600 students in the state participated. Six area competitions were held to determine the 18 teams that advanced to the State Competition held in May at James Madison University.

Amount granted: \$12,000.00

7308 Hanover Green Dr.  
Suite 100  
Mechanicsville, VA 23111  
804-559-0324



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**Monacan Soil and Water Conservation District**  
**Project #: 008-016**

Plan: As in their 1996, 1997, 1998, 2001, 2003, and 2007 grant applications, Monacan SWCD proposes to use the funds to help defray the costs for their Conservation Days Program to be held at the Fighting Creek Park in the Powhatan Courthouse area. The program will provide over 370 7th graders a hands-on educational experience concerning water and soil education and conservation. They seek funds for batteries, water, ice, cups, facility rental, and educational materials and handouts.

Results: The Conservation Days program was held at the field behind Powhatan Junior High School. Approximately 350 seventh graders and 30 adults were rotated through environmental stations.

Amount granted: \$440.00

P.O. Box 66  
Goochland, VA 23063  
804-556-4936

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**Va. Tech - Virginia Cooperative Extension**  
**Westmoreland & Richmond County 4-H**  
**Project #: 008-021**

Plan: The Westmoreland and Richmond County 4-H proposes to expand their environmental programming to include more sessions of the 4-H Water Wizard Daycamp Program, which is a Bay grass restoration service-learning project and in-school science SOL enrichment lessons. They seek funding to charter a boat for three trips to the daycamp, equipment, an Enviroscape, and training for the 4-H Agent and two volunteers on the Grasses for Masses CBF Program.

Results: The 4-H agent of Westmoreland and Richmond Counties organized two sessions of a grant-funded three-day program called "4-H Water Wizards Day Camp" for youth ages 9-13 from Westmoreland and Richmond Counties. Children measured water quality, inventoried benthic organisms, studied boat safety, and fishing.

Amount granted: \$1,654.00

P.O. Box 8  
18849 Kings Hwy.  
Montross, VA 22520  
804-493-8924

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**Natural Bridge Soil and Water Conservation District**  
**Project #: 008-022**

Plan: Natural Bridge SWCD requests funding to send 10 middle school students and five leaders on a six-day Chesapeake Bay trip titled "From the Blue Ridge to the Bay," which would also include two van rentals, gas, and food. Their goal is to increase student leadership and awareness in their community while learning about the direct connection between the Upper James River watershed and the Bay.

Results: During the "From the Blue Ridge to the Bay" trip, 11 middle school students from Rockbridge County, including Lexington and Buena Vista, were exposed to many aspects of the Chesapeake Bay watershed. The trip was a huge success as it provided a meaningful experience to engage the students and provide them with a strong basis towards developing motivated, engaged, and literate lifelong watershed stewards.

Amount granted: \$4,200.00

40 Magnolia Sq. Way, Suite 5  
Lexington, VA 24450  
540-463-7124, Ext. 107

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**Volunteer Advocates for Chesapeake Youth**  
**(formerly Chesapeake Volunteers in Youth Services)**  
**Project #: 008-034**

Plan: As in their 03-07 grant applications, VACY proposes to continue to conduct four weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 10 youths and 240 hours of community service.

Results: Funding from the CBRF provided opportunities for 49 youth to experience seven weekends of camping and environmental training while working on trails and clean-up activities at Chippokes and First Landing State Parks.

Amount granted: \$6,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8184

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**Middle Peninsula Chesapeake Bay Public Access Authority**  
**Project #: 008-035**

Plan: As in their 2007 grant application, MPCBPAA proposes for their Dragon Run/Chesapeake Bay Drainage Trail Demarcation Project to continue to oversee the application of reassurance markers, also known as blazes, to trees along all trails of the Browne Tract. The Browne Tract is the region's only multi-use public access facility for schoolchildren and the public to explore and gain knowledge of the Dragon Run watershed and the Bay drainage system. They seek funds for contractual services and 60 gallons (40 more than last year) of Nelson Boundary paints.

Results: MPCBPAA utilized funds granted by the CBRF to improve the trail demarcation systems of public access acquisitions in the Dragon Run watershed. Each trail system was demarcated using the Appalachian Trail System to more effectively provide the general public the opportunity to experience the Dragon Run watershed firsthand and gain an understanding of the surrounding ecosystem and its relation to the Chesapeake Bay.

Amount granted: \$400.00

P.O. Box 286  
Saluda, VA 23149  
804-758-2311

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**Caroline County - Department of Planning and Community Development**  
**Project #: 008-038**

Plan: With several letters of support, Caroline County proposes to create a county-wide network of weather stations which would interface with the new Caroline Alert system that is capable of sending customized messages to selected user groups and would include the WeatherBug Achieve educational program for levels K-12.

Results: CBRF funded the purchase, installation, and ongoing operation of the fully automated weather station at the Lewis and Clarke Elementary School, located in Ladysmith, Virginia. The weather station and the data it provides have proven useful to the teachers and students at the school, the Caroline County School System, and to Caroline County residents and businesses. Rainfall information from sites such as this support the county's environmental programs and "Weather Alerts" sent to site managers and contractors.

Amount granted: \$7,000.00

P.O. Box 424  
233 W. Broaddus Ave.  
Bowling Green, VA 22427  
804-633-4303

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**Boxerwood Education Association**  
**Project #: 008-050**

Plan: Similar to their 2002, 2004, and 2007 grant applications, Boxerwood proposes for their "River Rangers" project to expand the number of classes (grades 4-6) participating in educational activities related to the Bay and create a new learning resource "Rockbridge Hydropedia," a website dedicated to student-generated information about Maury River watershed and its relation to the Bay. The requested funds are for salaries, travel, bus trips to Boxerwood Nature Center, and a three-day environmental education trip to the CBF.

Results: More than 400 Rockbridge County students in grades 4-6 participated in Meaningful Watershed Educational Experiences thanks to the fund. More than 250 fourth graders received hands-on introduction to watershed issues during four-hour investigative programs at Boxerwood Nature Center. The students assessed the water quality of local streams using biotic and abiotic measures then posted their findings on a new grant-funded resource, *Rockbridge Hydropedia*. The funding helped sustain and expand an emerging grades 4-6 watershed-focused curriculum involving Boxerwood and three local school divisions at the headwaters of the Bay.

Amount granted: \$11,000.00

963 Ross Rd.  
Lexington, VA 24450  
540-463-2697

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation**  
**Project # 009-013**

Plan: As in their 2002, 2003, 2004, 2006, 2007, and 2008 grant applications, the VASWCD Educational Foundation proposes to continue to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for educational and training materials, workshops, and competition expenses.

Results: The grant provided the funds for the continuation of educational opportunities to high school students through Envirothon, which is a natural resources competition. Funding was used for educational and training materials, workshops, and competition expenses.

Amount granted: \$12,000.00

7308 Hanover Green Dr.  
Suite 100  
Mechanicsville, VA 23111  
804-559-0324

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**Va. Tech - Virginia Cooperative Extension  
Westmoreland & Richmond County 4-H  
Project #009-016**

Plan: Similar to their 2008 grant application, the Westmoreland and Richmond County 4-H proposes to continue to expand their environmental programming to include more sessions of the 4-H Water Wizard Daycamp Program, which is a Bay grass restoration service-learning project and in-school science SOL enrichment lessons. They seek funding to charter a boat for three trips to the daycamp, which would be offered twice and include supplies; ongoing training for a 4-H Agent; hardwood tree planting supplies; and to partner with ecology clubs at two high schools to provide a Bay trip.

Results: The 4-H agent of Westmoreland/Richmond Counties organized two sessions of a grant-funded three-day program called "4-H Water Wizards" for youth ages 9-13 from Westmoreland and Richmond Counties. Ninety percent of the participants can define a watershed, 80 percent can define water quality, 80 percent understand that their actions have an effect on the quality of the water in the Chesapeake Bay, and 90 percent will be more careful with natural resources because of the program.

Amount granted: \$6,225.00

P.O. Box 8  
18849 Kings Hwy.  
Montross, VA 22520  
804-493-8924

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**Virginia Institute of Marine Science  
Chesapeake Bay National Estuarine Research Reserve in Virginia  
Project #: 009-019**

Plan: CBNERRVA seeks funding to create a middle school level Dragon Run curriculum that covers information on the watershed, life and physical sciences, and conduct a two-day workshop to train 20 teachers about incorporating Dragon Run into their curricula.

Results: The objective of this project was to use the Dragon Run watershed to teach middle school students in Essex, Middlesex, King and Queen, and Gloucester Counties about the conditions of the Bay and rivers and streams that feed it. Activity subjects range from water quality, macroinvertebrates, land use, mapping, and watersheds. All activities are correlated to the Virginia Standards of Learning.

Amount granted: \$5,893.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7878

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**Natural Bridge Soil and Water Conservation District**  
**Project #: 009-021**

Plan: Similar to their 2008 grant application, Natural Bridge SWCD requests funding to send middle school students and leaders on a six-to-seven-day Bay trip titled "From the Blue Ridge to the Bay." The trip will include a "Local Day," which will give the participants an opportunity to meet local conservation professionals. Their goal is to increase student leadership and awareness in their community while learning about the direct connection between the Upper James River watershed and the Bay.

Results: During the "From the Blue Ridge to the Bay" trip, 12 middle school students from Rockbridge County (including the City of Lexington) were exposed to many aspects of the Chesapeake Bay watershed. They visited McCormick Farm in Steeles Tavern, traveled to Gloucester Point to the Virginia Institute of Marine Science, to Port Isobel Island for four days of total immersion into the Chesapeake Bay lifestyle, and finally to Tangier Island. The trip was a huge success and provided a meaningful experience to engage the students and provide them with a strong basis for watershed stewardship.

Amount granted:       \$6,000.00

40 Magnolia Sq. Way, Suite 5  
Lexington, VA 24450  
540-463-7124, ext. 107

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**Monacan Soil and Water Conservation District**  
**Project #: 009-023**

Plan: As in their 1996, 1997, 1998, 2001, 2003, 2007, and 2008 grant applications, Monacan SWCD proposes to use the funds to help defray the costs for their Conservation Days Program to be held at the Fighting Creek Park in the Powhatan Courthouse area. The program will provide over 345 7th graders a hands-on educational experience concerning soils, wildlife, food webs, ecosystems, nonpoint source pollution, watersheds, and associated environmental issues. They seek funds for water, ice, cups, educational materials and handouts, salaries, travel for presenters, and student transportation.

Results: Monacan SWCD's Conservation Days program was held at Powhatan Junior High School. Approximately 350 seventh graders and 30 adults were rotated through a twin set of three environmental stations. The program continued with improvements and has incorporated more hands-on activities. The program continued to be a success in natural resource awareness and conservation.

Amount granted: \$2,650.00

P.O. Box 66  
Goochland, VA 23063  
804-556-4936

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**Prince William Soil and Water Conservation District**  
**Project #: 009-027**

Plan: Prince William SWCD seeks funding for a Soil Tunnel tent to enable students to understand soil horizons and how human impacts affect the health of our soils and watershed.

Results: The District teachers and volunteers reach over 19,000 students during a typical school year with Conservation Capsules and Presentations, providing 3,500 students the opportunity to learn about soils in the classroom at Farm Field Days. Farm Field Days combine learning and fun where students attend a variety of programs specific to agriculture in Virginia. With the funds from CBRF, the creation of a traveling exhibit called "Dig It, the Dirt of Soil" was created. The goal of increased awareness among students and families of their impact on the health of soils and how they affect the environment was met.

Amount granted: \$8,000.00

13061 Fitzwater Dr.  
Nokesville, VA 20181  
703-594-3621

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**County of Frederick Recycling  
Project #: 009-036**

Plan: Frederick County Recycling seeks funding for Wendy Whitten and her singing sidekick, Flumpa the Frog, to perform at two assemblies for each of the county's 12 elementary schools. The performance teaches pupils in a unique way about the water cycle, water habitats, evaporation and condensation, the water bond and how it is broken into a liquid and gas, and pollution and its impacts on aquatic life such as frogs.

Results: A total of 2,276 elementary school pupils in preschool through grade three learned about the water cycle, fresh and salt water habitats, the life cycle of a frog, and stewardship. The entire program supported the SOLs.

Amount granted: \$8,000.00

107 N. Kent St.  
Winchester, VA 22601  
540-665-5643, ext. 1

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**James City County  
Division of Parks and Recreation  
Project #: 009-042**

Plan: To continue with their 02-07 grant applications, James City County Parks and Recreation proposes to continue to offer educational programs to more children. For 2009, they seek funds for two "Chesapeake Bay Explorers" camps to every child that participates in the Rec Connect Camp, Beyond the Bell Summer Camp, and the Special Needs Days of Discovery Camp at no additional cost. The camp will focus on the importance of preserving the natural resources of the Bay and its watershed

Results: Parks and Recreation continued to offer the very successful Chesapeake Bay educational component to its large Total Rec Summer Camp. Approximately 400 children in elementary, middle school, and a special needs camp participated in a two day educational program that included hands-on water monitoring, crafts, and a Chesapeake Bay boating excursion. As a result of this educational component, 78 percent of middle school students and 62 percent of elementary school students reported learning something new about the Bay, its inhabitants, or protection techniques. Over 80 percent of both groups reported having fun during the two day camp during their learning experience.

Amount granted: \$5,953.00

5300 Palmer Lane, Suite 1A  
Williamsburg, VA 23188-2674  
757-259-5412



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**Earth Force, Inc.**  
**Project #: 009-044**

Plan: As in their 2003, 2004, and 2007 grant applications, Earth Force seeks funds for their GREEN Teacher Institute program, which will assist in providing 30 educators in Northern Va. with advanced training opportunities, extensive classroom and field support, and the resources needed to continue implementing the GREEN process in their classrooms to improve the health of the Bay watershed. Support for personnel is of greater importance this year as they adjust their programmatic strategies to reflect the needs of educators.

Results: CBRF's sponsorship of the Global Rivers Environmental Education Network (GREEN) assisted in providing 34 educators with introductory and advanced training opportunities, extensive classroom and field support, and the resources needed to continue implementing the GREEN program in their classrooms to improve the health of the Chesapeake Bay watershed. The awarded proposal outlined several Meaningful Watershed Educational Experiences into the science curriculum. These measures included recruiting new educators to participate in the program, providing educators with training and ongoing support, and fostering a growing network of partners to support watershed stewardship programs. The GREEN program is helping Virginia educators meet the state Standards of Learning in science related to watershed knowledge, assessment, analysis, and protection.

Amount granted: \$8,000.00

3333 Helen St.  
Alexandria, VA 22305  
703-838-9074

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**Friends of the Rappahannock  
(Going Fishing After School)  
Project #: 009-070**

Plan: FOR requests funding for their "Going Fishing after School" program, which is designed to engage youth in fishing and stewardship as well as target underserved populations of at-risk youth with a constructive and wholesome activity that nurtures confidence and hones skills to be successful in school and life. Through their fishing activities, participants will experience local Bay-related environmental problems first hand and identify actions they can take as outdoors people and river stewards.

Results: Friends of the Rappahannock partnered with the Rappahannock Area Office on Youth and the My Life after School program to offer a fishing program "Going Fishing after School" to middle school students who have been identified as at-risk. The program was designed to give the students an alternative after school activity, while teaching them about river ecology and stewardship, river safety, and basic fishing techniques. Twenty-four students participated in the program, 21 completed the program. The funds provided by CBRF were used to cover staff time in developing and leading the program and the purchase of equipment to use with the students from the My Life program as well as future groups that may be interested.

Amount granted:       \$5,519.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

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**Bull Run Mountains Conservancy, Inc.**  
**Project #: 009-078**

Plan: BRMC proposes to offer 16 scholarships to youth ages 13-18 for their "Chesapeake Watershed Workshop," which they will conduct twice, three days each session. The first day will be spent at the headwater stream on the Bull Run Mountains, the second day analyzing the impact of golf courses and development on their mountains perennial streams, and concluding on the third day at the Turkey Run National Park. At each location, they will perform stream monitoring tests, vegetation analysis, and stream habitat and riparian buffer evaluations.

Results: With funds provided by CBRF, Bull Run Mountains Conservancy expanded their Youth Outdoors Scholarship program by offering two Chesapeake Watershed Workshop sessions. The workshops provided 15 students with a valuable, hands-on learning experience that amounted to a total of 315 hours of interaction. The outreach and education that these students can offer to their community and peers has the potential to reach many people.

Amount granted: \$5,500.00

P.O. Box 210  
Broad Run, VA 20137-0210  
703-753-2631

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**Boxerwood Education Association**  
**Project #: 009-082**

Plan: Similar to their 2002, 2004, 2007, and 2008 grant applications, Boxerwood proposes for their "River Rangers" project to expand the number of classes (grades 4-6) to include more classrooms in grades 5-7 participating in educational activities related to the Bay and continue with their "Rockbridge Hydropedia," a website dedicated to student-generated information about Maury River watershed and its relation to the Bay. New for this grant cycle is a pilot program "Share the Care" (Bay Ambassadors), which will link 20 7th graders with five 4th grade classrooms from Buena Vista City Schools. The requested funds are for salaries, travel, bus trips to Boxerwood Nature Center, and a three-day environmental education trip to the CBF.

Results: More than 835 Rockbridge County students grades 4-6 received more than 5,600 instructional hours of watershed-related programming through Boxerwood thanks to the CBRF. More than 270 fourth graders received hands-on introduction to watershed issues during four-hour investigative programs at Boxerwood Nature Center. The funding helped expand capacity for locally based grades 4-6 meaningful watershed education programming for three local school divisions at the headwaters of the Bay.

Amount granted:       \$10,830.00

963 Ross Rd.  
Lexington, VA 24450  
540-463-2697

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**The Wintergreen Nature Foundation**  
**Project #: 010-006**

Plan: The Foundation proposes to provide K-12 students with outdoor field experiences to enhance their awareness and knowledge of water health in their watershed, increase the curricular connection between field experiences and the classroom through the development of sample lesson plans, and provide materials and supplies needed for teachers to implement environmental education within their own classroom projects.

Results: The CBRF allowed The Wintergreen Nature Foundation to continue its strong record of popular environmental education programs with local schools. Over 500 students participated in hands-on field studies in Wintergreen's open spaces. In addition, teachers took advantage of professional development opportunities with the Wintergreen Nature Foundation to gain scientific knowledge as well as inspiration and support to continue nurturing responsible environmental stewards through every day of the academic year.

Amount granted: \$2,500.00

R. R. 1, Box 770  
Roseland, VA 22967  
434-325-7473

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**Volunteer Advocates for Chesapeake Youth**  
**(formerly Chesapeake Volunteers in Youth Services)**  
**Project 010-016**

Plan: As in their 03-09 grant applications, VACY proposes to continue to conduct six weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 6-10 youths with 240 hours of community service per weekend.

Results: The CBRF provided opportunities for 42 youth to experience six weekends of camping and environmental training while working on trails and clean-up activities at Chippokes and First Landing State Parks. The success of the program is a result of the outdoor experience and finished product in the work clean-up along the Bay.

Amount granted: \$6,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8184

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation  
Project #: 010-018**

Plan: As in their 2002, 2003, 2004, 2006, 2007, 2008, and 2009 grant applications, the VASWCD Educational Foundation proposes to continue to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for Envirothon Educational Workshops, Resource Trunk Materials, and any State Envirothon Competition needs.

Results: A major priority of the VASWCD is environmental education and research. Through the Envirothon Program, students participate in the conservation of the natural resource base of the Commonwealth of Virginia. Envirothon links environmental education and high school classrooms throughout the Commonwealth and the United States. Last year, the Virginia Envirothon curriculum was incorporated into more than 140 classrooms as a result of the CBRF. The fund provided financial support for educational and training workshops at a state and regional level, state/national competition expenses, and upkeep of Envirothon Resource Study Trunks.

Amount granted:       \$15,000.00

7308 Hanover Green Dr., Suite 100  
Mechanicsville, VA 23111  
804-559-0324

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**James City County**  
**Division of Parks and Recreation**  
**Project #: 010-022**

Plan: To continue with their 02-07 and 2009 grant applications, James City County Parks and Recreation proposes to continue to offer educational programs to more children. For 2010, they seek funds for two "Chesapeake Bay Explorers" camps to every child that participates in the Rec Connect Camp at no additional cost. The camp will focus on the importance of preserving the natural resources of the Bay and its watershed.

Results: James City County Division of Parks and Recreation continued to offer the very successful Chesapeake Bay educational component to its large Total Rec Summer Camp. Approximately 300 leaders and children in elementary, middle school, and a special needs camp participated in a two day education program that included hands-on water monitoring, crafts, and a Chesapeake Bay boating excursion. As a result of this educational component, 94 percent of middle school students and 60 percent of elementary school students reported learning something new about the Bay, its inhabitants, and protection techniques.

Amount granted: \$5,900.00

5300 Palmer Lane, Suite 1A  
Williamsburg, VA 23188  
757-259-5412

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**Virginia Department of Forestry**  
**Project #:010-025**

Plan: The Va. Dept. of Forestry proposes for their "Learn and Play Area" project to create an area for unstructured learning and play at Va. Forest Education Center in New Kent County. Their goal is to engage children with nature and foster their development through unstructured play.

Results: In order to inspire young children to play outdoors and connect with nature, the Virginia Department of Forestry sought to create an area for unstructured learning and play at the Virginia Forest Education Center in New Kent. The learning stations included a building area, messy materials area, gathering area for reading and telling stories, a trees knees puzzle station, a natural art area, stepping stumps and a blueberry patch, and a music and movement area. These learning stations highlight nature on the property.

Amount granted: \$3,560.00

900 Natural Resources Dr., Suite 800  
Charlottesville, VA 22903  
434-977-6555

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**Earth Force, Inc.**  
**Project #: 010-037**

Plan: As in their 2003, 2004, 2007, and 2009 grant applications, Earth Force seeks funds for their "GREEN Teacher Institute" program, which will assist in providing educators in Northern Va. with advanced training opportunities, extensive classroom and field support, and the resources needed to continue implementing the GREEN process in their classrooms to improve the health of the Bay watershed. Their goal is to provide hands-on watershed investigations for 1,250 students in Arlington and Alexandria, Va., with the students creating a watershed improvement project and these students will also be invited to make presentations about their action project at Earth Force's annual Youth Summit.

Results: The CBRF's sponsorship of the Global Rivers Environmental Education Network (GREEN) assisted in providing 38 educators with professional development opportunities, classroom and field support, and the resources needed to continue implementing the GREEN program in their classrooms to improve the health of the Chesapeake Bay watershed. The GREEN program through Earth Force continued to help Virginia educators address state Standards of Learning, heighten students understanding of watershed and water quality issues facing their communities and the Chesapeake Bay, and cultivate environmental stewardship today and for the future.

Amount granted:       \$9,750.00

P.O. Box 2447  
Alexandria, VA 22301  
703-838-9074



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**Boxerwood Education Association, Inc.**  
**Project #: 010-049**

Plan: Similar to their 2002, 2004, 2007, 2008, and 2009 grant applications, Boxerwood proposes for their "Watershed Investigators 2009" project to involve at least 90 percent of all Rockbridge area students (grades 4-6) in more than 7,800 hours of field-based hands-on watershed education programming, expand their "Bay Ambassadors" program from one middle school to three, and build inter-school networks by further connecting students, teachers, and their conservation projects through their web-based resource, "Rockbridge Hydropedia." The requested funds are for personnel, supplies, bus trips and program fees to Boxerwood Nature Center, and a three-day environmental education trip to the CBF.

Results: More than 900 Rockbridge County students (grades 4-6) engaged in a day-long hands-on Meaningful Watershed Educational Experience (MWEE) along local creeks and rivers as led by Boxerwood Nature Center. Boxerwood also facilitated a three-day intensive residential program at the Chesapeake Bay for 43 seventh graders and seven teachers representing three local schools, in conjunction with the Chesapeake Bay Foundation. Students investigated marshes, met watermen, went crabbing, seined for fish, assessed water quality, and compared the ecosystems of the Bay to the freshwater rivers they know through Boxerwood MWEE programs.

Amount granted:     \$3,300.00

963 Ross Rd.  
Lexington, VA 24450  
540-463-2697

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**City of Waynesboro**  
**Stormwater Management Program**  
**Project #: 010-098**

Plan: With letters of support, the City of Waynesboro proposes for their "Waynesboro Watershed Awareness" project to place a watershed education display at the public pavilion located along the bank of the South River, partner with Waynesboro High School to offer a fun and interactive watershed education program for elementary school students, and work in conjunction with the Waynesboro Stormwater and Flood Commission to actively participate in the Adopt-A-Stream program.

Results: The grant provided funding for the Waynesboro Watershed Awareness Project. Approximately 1,100 students from kindergarten through eighth grade were reached through the educational arm of the program. The educational display signage in city parks reached more members of the citizen base. The citizen advisory panel (Waynesboro Stormwater and Flood Control Commission) created community initiatives to benefit the South River and ultimately the Chesapeake Bay.

Amount granted: \$3,700.00

941 Fir St.  
Waynesboro, VA 22980  
540-942-6775

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation**  
**Project #: 011-001**

Plan: As in their 02-04 and 06-10 grant applications, the VASWCD Educational Foundation proposes to continue to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for Envirothon Educational Workshops, Resource Trunk Materials, and any State Envirothon Competition needs.

Results: The CBRF continued financial support to the Virginia Envirothon. A major priority of Virginia's SWCD is environmental education and outreach. Through the Envirothon Program, students participate in the conservation of the natural resource base of the Commonwealth of Virginia.

Amount granted: \$11,000.00

7308 Hanover Green Dr., Suite 100  
Mechanicsville, VA 23111  
804-559-0324

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**James City County  
Division of Parks and Recreation  
Project #: 011-012**

Plan: As in their 02-07 and 09-10 grant applications, James City County Parks and Recreation proposes to continue to offer educational programs to more children. They seek funds for two "Chesapeake Bay Explorers" camps to every child that participates in the Rec Connect Camp at no additional cost. The camp will focus on the importance of preserving the natural resources of the Bay and its watershed.

Results: The CBRF supported more than 250 leaders and children in elementary, middle school, and a special needs camp in a two day educational program that included hands-on water monitoring, crafts, and a Chesapeake Bay boating excursion. As a result of this educational component, 85 percent of middle school students and 70 percent of elementary school students reported that they had learned something new about the Bay, its inhabitants, or protection techniques.

Amount granted: \$3,600.00

5300 Palmer Lane, Suite 1A  
Williamsburg, VA 23188  
757-259-5412

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**Natural Bridge Soil and Water Conservation District  
Project #: 011-014**

Plan: As in their 08-10 grant applications, Natural Bridge SWCD requests funding to send middle school students and leaders on a six-to-seven-day Bay trip titled "From the Blue Ridge to the Bay." The trip will include a "Local Day," which will give the participants an opportunity to meet local conservation professionals. Their goal is to increase student leadership and awareness in their community while learning about the direct connection between the Upper James River watershed and the Bay.

Results: The trip entitled, "Upper James Watershed Exploration" provided by the fund enabled six local middle school students led by Chesapeake Bay Foundation trip leaders to explore areas of the Upper James River watershed.

Amount granted: \$4,000.00

40 Magnolia Sq. Way, Suite 5  
Lexington, VA 24450  
540-463-7124, ext. 101

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**Volunteer Advocates for Chesapeake Youth  
(Formerly Chesapeake Volunteers in Youth Services)  
Project #: 011-015**

Plan: As in their 03-10 grant applications, VACY proposes to continue to conduct six weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 6-10 youths and provide 120-200 hours of community service.

Results: Funding from the CBRF provided opportunities for 37 youth to experience five weekends of camping and a one day trip of environmental training while working on trails and clean-up activities at Chippokes and First Landing State Parks.

Amount granted: \$6,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8184

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**Friends of the North Fork of the Shenandoah River  
Project #: 011-027**

Plan: FNFSR seeks funding for two workshops being held at the CBF: North Fork Exploration for Teachers (4 days) and North Fork Exploration for Students (1 week).

Results: The Friends developed and hosted a three-day professional development opportunity for teachers and a four-day summer camp for students in Shenandoah County, Va. Known as the North Fork Explorations, the water health focused on highly interactive learning opportunities featuring a canoe trip led by the Chesapeake Bay Foundation and field trips to facilities that have a significant impact on water quality in the North Fork Shenandoah River watershed.

Amount granted: \$6,250.00

P.O. Box 746  
Woodstock, VA 22664  
540-459-8550

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**Winchester Virginia Chapter of Trout Unlimited**  
**Project #: 011-028**

Plan: Continuing with their 2007 grant application, TU proposes for their "Trout in the Classroom" project to expand the program to include additional middle and high schools in their area and to upgrade some of the equipment required to hatch and raise the trout fingerlings. They seek funding for supplies for the five new schools and to replace five flow-through chillers with more efficient drop-in chiller units.

Results: The proceeds from the CBRF grant have been used to support the expansion of the highly successful "Trout in the Classroom" program in Frederick and Clarke Counties in Northwestern Virginia. The program is currently in its sixth year of operation. Aquariums with chiller units have been purchased and placed in 17 area elementary, middle, and high school classrooms and the Shenandoah Valley Discovery Museum. Participating teachers, students, and staff are raising brook trout from fertilized eggs supplied by the Virginia Department of Game and Inland Fisheries. The fingerlings are released into to spring-fed trout streams in the area Redbud Run and Spout Run, both part of the Chesapeake Bay watershed.

Amount granted:       \$5,000.00

309 Huntersridge Rd.  
Winchester, VA 22602  
540-722-4914

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**Boxerwood Education Association, Inc.**  
**Project #: 011-031**

Plan: Similar to their 2002, 2004, and 07-10 grant applications, Boxerwood proposes for their "Watershed Investigators" project to involve 100 percent of all Rockbridge area students (grades 4-6) in more than 7,800 hours of field-based hands-on watershed education programming and ensure the Bay capstone experience continues for 50 students and teachers each year, which preserves their "Bay Ambassadors Program."

Results: As part of their county's multi-grade, multi-year watershed curriculum, 850 students in grades 4-6 engaged in day-long hands-on Meaningful Watershed Educational Experiences in Rockbridge County, as lead by Boxerwood. An additional 43, 7th graders from three schools engaged in a three-day residential program at the Chesapeake Bay. Total instructional time received was more than 5,241 in field hands-on hours. Funds from CBRF provided program fee subsidies for those classrooms that needed it to ensure 100 percent participation for all local grade 4 and 5 classrooms and 75 percent participation for all grade 6 classrooms.

Amount granted: \$6,000.00

963 Ross Rd.  
Lexington, VA 24450  
540-463-2697

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**Fairfax County Park Foundation**  
**Project #: 011-053**

Plan: The Foundation proposes for their "Watershed Education Experience in Parks" project to connect two 7th grade classes in the Fairfax Co. Public School District with a nearby nature center. The middle school students will partake in a watershed education workshop that will begin in the classroom, culminate in a three hour field trip to the Hidden Oak Nature Center, and conclude with a service learning project at the Nature Center.

Results: The "Watershed Education Experience in Parks" project successfully impacted 470 seventh graders from middle schools located in Fairfax County, Va. Fairfax County Park Authority staff added an additional school-based component to the program to increase the number of participants. The proposed goal was to reach 120 seventh graders from Title 1 schools. In reality, the project was able to reach 470 students from a Title 1 school, including over 40 special needs students.

Amount granted: \$3,000.00

12055 Government Center Pkwy., Suite 404  
Fairfax, VA 22035

**Friends of the Rappahannock  
(Student Stream Team and Going Fishing After School)  
Project #: 011-059**

Plan: Continuing with their 2009 and 2010 grant applications, FOR requests funding for their "Going Fishing after School" program, which is designed to engage youth in fishing and stewardship as well as target underserved populations of at-risk youth with a constructive and wholesome activity that nurtures confidence and hones skills to be successful in school and life. Also, for their "Student Stream Team" program, FOR, along with Colonial Forge High School Learn and Serve students, seeks funds for a sustainable riparian buffer restoration program run by school staff and facilitated by FOR, resulting in nutrient and sediment reductions in the river and Bay and raising public awareness of Bay issues.

Results: Fifty-five Student Stream Team students from Colonial Forge High School participated in a Meaningful Watershed Educational Experience to learn about and restore stream/riverside forest buffers. The students were guided through several courses and field trips, followed by small exams, to build and test their knowledge on water quality issues and the importance of riparian forests to the health of the Rappahannock River prior to a planned restoration project. This year, the students helped to restore two different eroding tributaries on Priestly Farm, Marshall, Virginia. Students planted a total of 1,417 trees along 2,185 linear feet of bank to improve the water quality and riparian habitat of these creeks

Amount granted: \$5,000.00

3219 Fall Hill Ave.  
Fredericksburg, VA 22401  
540-373-3448

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**Earth Force, Inc.**  
**Project #: 011-072**

**Plan:** As in their 2003, 2004, 2007, 2009, and 2010 grant applications, Earth Force continues to seek funds for their "GREEN Teacher Institute" program, which will assist in providing educators in Northern Va. with advanced training opportunities, extensive classroom and field support, and the resources needed to continue implementing the GREEN process in their classrooms to improve the health of the Bay watershed. Their goal is to expand hands-on watershed investigations for 1,500 students in Arlington and Alexandria, Va., with the students creating a watershed improvement project and these students will also be invited to make presentations about their action project at Earth Force's annual Youth Summit.

**Results:** Support and funding from the CBRF enabled Earth Force to provide 33 educators with professional development opportunities, classroom and field support, and Global Rivers Environmental Education Network (GREEN) program resources to facilitate youth-driven action in improving the health and condition of the Chesapeake Bay. Through participation in GREEN program activities, more than 1,300 students explored their local watershed through hands-on scientific inquiry and/or water monitoring. With fund support, Earth Force continues to help Virginia educators address state Standards of Learning, cultivate environmental stewardship, and heighten students understanding of watershed and water quality issues facing their communities and the Chesapeake Bay.

**Amount granted:** \$4,445.00

P.O. Box 2447  
Alexandria, VA 22301  
703-838-9074



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**Piedmont Soil & Water Conservation District**  
**Project #: 011-079**

Plan: Similar to their 1997 grant application, Piedmont SWCD seeks funding for their "Year in a Schoolyard Watershed" project, which will put natural resource education in the form of outdoor learning kits, lesson plans, classroom programs, and workshops into the hands of elementary school teachers to enhance environmental awareness, increase knowledge of watersheds, and foster stewardship in students in Amelia, Nottoway, and Prince Edward Counties.

Results: The CBRF grant provided outdoor classroom learning kits to 25 teachers and 500 students, a workshop for educators, and 12 classroom presentations to four elementary schools. All of these components combined have enhanced environmental awareness, increased knowledge of watersheds, and provided local educators the resources needed to initiate a "Meaningful Watershed Experience" for their students.

Amount granted: \$7,025.00

100-B Dominion Dr.  
Farmville, VA 23901  
434-392-3782, ext. 108

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**Bull Run Mountains Conservancy, Inc.**  
**Project #: 011-104**

Plan: BRMC proposes to offer three workshops in stream ecology to 10 teachers each and expand their offering to additional districts. The trainings will be held along Catharpin Creek. The requested funds are for staff, equipment, the updating of a booklet on the "Ecology of Virginia's Perennial 1st Order Streams," the printing of the "Stream Ecology and Natural History" booklet, CDs, and tool kits.

Results: Middle and high school teachers came from Northern Virginia to attend a workshop on the ecology of Virginia's streams at Bull Run Mountains Conservancy. Teachers were introduced to fundamental concepts in stream ecology, the major groups of aquatic macroinvertebrates, and standard methods for measuring stream health. They conducted a stream assessment of Catletts Branch in the Bull Run Mountains Natural Area Preserve and identified aquatic macroinvertebrates. They were prepared to educate their students about Virginia's streams and to conduct an assessment of stream health.

Amount granted: \$3,485.00

P.O. Box 210  
Broad Run, VA 20137  
703-753-2631

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**Volunteer Advocates for Chesapeake Youth**  
**Project #: 012-016**

Plan: As in their 03-11 grant applications, VACY proposes to continue to conduct five, previously six, weekend camping trips to perform environmental enhancements along the Bay. New for the 2012 grant cycle, VACY also proposes to provide three day outings. Each weekend outing will include 6-10 youth and provide 120-200 hours of community service and the day trips will include 10 youth conducting eight hours of service.

Results: Funding from the CBRF provided opportunities for 40 youth to experience five weekends of camping and two day trips of environmental training while working on trails and clean-up activities at Chippokes and First Landing State Parks. Projects included chopping wood, trail maintenance, and cleaning the camp grounds.

Amount granted: \$6,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8184

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**Virginia Association of Soil and Water Conservation Districts Educational Foundation**  
**Project #: 012-018**

Plan: As in their 02-04 and 06-11 grant applications, the VASWCD Educational Foundation proposes to continue to provide educational opportunities to high school students through Envirothon, which is a natural resources competition. They seek funding for Envirothon Educational Workshops, Resource Trunk and Starter Kit Materials, and Marketing efforts.

Results: Through the Envirothon Program, students participate in the conservation of the natural resource base of the Commonwealth of Virginia. The grant for this project provided financial support for educational and training workshops at a regional level, state/national competition expenses, upkeep of Envirothon Resource Study Trunks, and marketing and outreach efforts to increase awareness of the program and increase participation among students that may not have previously been exposed to the program.

Amount granted: \$10,000.00

7308 Hanover Green Dr., Suite 100  
Mechanicsville, VA 23111  
804-559-0324

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**James City County  
Department of Parks and Recreation  
Project #: 012-019**

Plan: As in their 02-07 and 09-11 grant applications, James City County Parks and Recreation proposes to continue to offer educational programs to more children. They seek funds for a two day "Chesapeake Bay Explorers" camp to every child that participates in the Rec Connect Camp at no additional cost. The camp will focus on the importance of preserving the natural resources of the Bay and its watershed.

Results: The grant offered the successful Chesapeake Bay educational component to the large Total Rec Summer Camp. More than 300 leaders and children in elementary, middle school, and a special needs camp participated in a two day educational program that included hands-on water monitoring, crafts, and a Chesapeake Bay boating excursion. As a result of this educational component, 85 percent of middle school students and 70 percent of elementary school students reported that they learned something new about the Bay, its inhabitants, or protection techniques.

Amount granted: \$3,000.00

5300 Palmer Lane, Suite 1A  
Williamsburg, VA 23188  
757-259-5412

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**Headwaters Soil and Water Conservation District  
Project #: 012-024**

Plan: Similar to their 2000, 2002, and 2007 grant applications, the Headwaters SWCD proposes to improve the awareness of watershed issues in specific TMDL watersheds adjacent to five Augusta Co. high schools, teach and mentor water monitoring techniques to Future Farmers of America (FFA) leaders, and foster agricultural BMPs in the schools' nearest subwatersheds for improved water quality. They seek funding for materials, gas, and tuition for 20 FFA advisors and officers to Fox Island, a CBF Program, for three days.

Results: Headwaters SWCD is committed to ongoing support of local FFA Chapters/SVGS as an effective tool for improving the awareness of water quality in Augusta County. One of the biggest benefits from this grant has been the opportunity to instill conservation values and practices into the next generation of farmers. This grant will be used as a building block to help improve water quality, quality of life, and sustainable agriculture systems for years to come.

Amount granted: \$3,140.00

70 Dick Huff Lane  
Verona, VA 24482  
540-248-0148

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**Western Virginia Land Trust**  
**Project #: 012-030**

Plan: Western Va. Land Trust is proposing a "Bay Field" excursion for 120 Botetourt Co. elementary school students to the Preece Farm, which is locally owned. Teachers, land trust staff, and outside organizations would plan and set up educational stations relating to the Bay ecosystem and water quality protection through which the students would rotate.

Results: Western Virginia Land Trust has recently changed its name to the Blue Ridge Land Conservancy. Over 380 Botetourt County fourth-graders attended the first-ever Bay Day field experiences this past October. The Western Virginia Land Trust, in partnership with the school system and multiple partner agencies designed, brought the students to the conserved Preece property for a day of hands-on watershed education. Local environmental educators led the students in five hands-on activity stations that covered a range of topics from water quality to animal adaptations. Bay Day served as the students introduction to many of the topics contained within Virginia Standard of Learning 4.9 and for many students it was their first time discussing their close connections to the Chesapeake Bay watershed.

Amount granted: \$3,350.00

722 First St., SW, Suite L  
Roanoke, VA 24016  
540-985-0000

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**Friends of the North Fork of the Shenandoah River**  
**Project #: 012-037**

Plan: Expanding their 2011 grant application, FNFSR proposes for their "Student North Fork Exploration" project to conduct four week long summer enrichment environmental education classes on watersheds at their North, Central, South, and Community Christian School campuses.

Results: CBRF provided funding to support a watershed focused summer camp for Shenandoah County students during the summer of 2012. Twenty-seven students participated in the 2012 North Fork Exploration for students. The students ranged from 6th grade to 11th grade and included Shenandoah County School System students as well as a local private military academy (Massanutten Military Academy). This was the third successful year of a week-long summer enrichment class that promoted an interest in the river and taught young people to care for water quality and their environment.

Amount granted: \$5,080.00

P.O. Box 746  
Woodstock, VA 22664  
540-459-8550

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**Va. Tech - Virginia Cooperative Extension  
Westmoreland and Richmond County 4-H  
Project #: 012-066**

Plan: Similar to their 2008 and 2009 grant applications, the Westmoreland and Richmond County 4-H proposes to continue to expand their environmental programming to include more sessions of the "4-H Water Wizard Daycamp" program, which is a Bay grass restoration service-learning project and in-school science SOL enrichment lessons. They seek funding to charter a boat for the three-day camp, two week long professional development opportunities for educators organized and taught by CBF, and two guided canoe trips on local creeks.

Results: Natural Resources Environmental Education (NREE) programming reached youth from elementary to high school at schools, clubs and other youth serving programs, and at camps. Programs included offering tree seedlings, water quality focused day camp, a canoe trip led by Chesapeake Bay Foundation educators, and in-school SOL enrichment about pollution. One hundred fifty youth were reached with NREE programs thanks to the CBRF grant dollars.

Amount granted: \$2,240.00

P.O. Box 8  
18849 Kings Hwy.  
Montross, VA 22520  
804-493-8924

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**Bull Run Mountains Conservancy, Inc.  
Project #: 012-085**

Plan: Continuing with their 2011 grant application, BRMC proposes to offer two workshops in stream ecology to teachers, expanding their offering to additional districts. The trainings will be held along Catharpin Creek. The requested funds are for staff, equipment, the printing of the "Stream Ecology and Natural History" booklet, CDs, and tool kits.

Results: The Conservancy hosted two trainings in stream ecology and natural history of Virginia's Piedmont headwater streams for middle and high school teachers. Teachers attended from Prince William, Fauquier, Loudoun, Fairfax, and Rappahannock Counties. A survey of teachers found that 88 percent of teachers had used or planned to use the materials that had been provided to them.

Amount granted: \$1,855.00

P.O. Box 210  
Broad Run, VA 20137  
703-753-2631

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**Boxerwood Education Association, Inc.**  
**Project #: 012-093**

Plan: Similar to their 2002, 2004, and 07-11 grant applications, Boxerwood proposes for their "Watershed Investigators" project to involve 100 percent of all Rockbridge area students (grades 4-6) in more than 6,650 hours of field-based hands-on watershed education programming and engage 60 students and teachers to the Bay in a 3-day, 2-night environmental education immersion experience, which preserves their "Bay Ambassadors Program."

Results: As part of a multi-grade, multi-year sequential watershed curriculum, 865 grade 4-6 students engaged in day-long hands-on Meaningful Watershed Educational Experiences in Rockbridge County, led by Boxerwood. An additional 43 seventh graders from three local middle schools engaged in a three day residential program at the Chesapeake Bay. Students and their teachers were able to build on previous knowledge about habitats, ecosystems, and resource conservation to understand the relationship between healthy land and healthy rivers through a variety of field-based watershed investigations tailored to their SOL curriculum. In sum, a total of 908 local students received more than 5,375 hours of in-field instruction related to care of the waters of the Chesapeake Bay.

Amount granted:       \$5,440.00

963 Ross Rd.  
Lexington, VA 24450  
540-463-2697

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**Earth Force, Inc.**  
**Project #: 012-097**

Plan: As in their 2003, 2004, and 07-11 grant applications, Earth Force continues to seek funds for their "GREEN Teacher Institute" program, which will assist in providing educators in Northern Va. with advanced training opportunities, extensive classroom and field support, and the resources needed to continue implementing the GREEN process in their classrooms to improve the health of the Bay watershed. Their goal is to expand hands-on watershed investigations for 1,500 students in Arlington and Alexandria, Va., with the students creating a watershed improvement project and these students will also be invited to make presentations about their action project at Earth Force's annual Youth Summit.

Results: Support from the CBRF enabled Earth Force to provide 31 educators with professional development opportunities, classroom and field support, and Global Rivers Environmental Education Network (GREEN) program resources to facilitate youth-driven action in improving the health and condition of the Chesapeake Bay. More than 1,400 students explored their local watershed through hands-on scientific inquiry and water monitoring. Thirteen local schools and after school programs received high-quality curriculum materials and field or classroom support. Student action projects contributed to Chesapeake Bay health via stormwater measures, nutrient reduction efforts, public outreach, erosion prevention, stream buffer enhancement, and other approaches.

Amount granted: \$5,500.00

P.O. Box 2702  
Alexandria, VA 22301  
703-684-0178

**ORGANIZATION/GOVERNMENT EDUCATION**  
**COMMUNITY**

**Headwaters Soil & Water Conservation District**  
**Project #: 000-006**

Plan: Headwaters SWCD requests funds to pay for large photos of BMPs to be made from a slide show they have assembled in order to maximize their teaching value.

Results: Headwaters enlarged mounted photographs of local Best Management Practices for display and public education.

Amount granted: \$521.00

P.O. Box 70  
Verona, VA 24482-0070  
540-248-4328

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**UVA - Va. Museum of Natural History**  
**Project #: 000-012**

Plan: The Va. Museum of Natural History at UVA proposes to create an exhibit about the Rivanna River watershed and water issues affecting the communities through which the river flows. The Museum will need 3-D models and exhibit construction materials, copying, postage, office supplies, field trip expenses and an Outreach Education Coordinator.

Results: The CBRF supported the construction of a watershed exhibit and outreach education based on the exhibit. A total of 2,527 individuals benefited from watershed education through the exhibit, tours, educational outreach programs, and field trips. Because of the grant, they incorporated part of the watershed exhibit into a permanent discovery room exhibit, continued watershed programming through a regular series of outreach education programs, and circulated their newly developed water kit as part of an ongoing kit rental program.

Amount granted: \$6,000.00

104 Emmet St.  
Charlottesville, VA 22903  
804-982-4605



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**Va. Tech - Virginia Cooperative Extension, Spotsylvania County 4-H  
Project #: 000-028**

Plan: The Spotsylvania 4-H'ers request support to learn more about wildlife plantings, building of birdhouses, boxes and goose platforms, and other things that they can do to help maintain wildlife habitat. They would then work closely with approximately 1,600 4th graders to showcase what they have learned by having them teach others.

Results: Four 4-H lessons to 1,600 fourth grade students at 14 elementary schools were provided. The lessons included agricultural awareness, wildlife and ecosystems, plants and insects, and strong families/competent kids (safety while home alone). Each included hands-on activities, which enhance the Standards of Learning. The grant provided resources to enhance the wildlife and ecosystems program.

Amount granted: \$1,800.00

P.O. Box 95  
Spotsylvania, VA 22553  
540-582-7096

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**Alliance for the Chesapeake Bay  
Project #: 000-031**

Plan: The Alliance requests funding the "Virginia Sojourn 2001" project which is an environmental outreach and education project to take place on a major Virginia waterway. This is an action-oriented education effort to increase public awareness and knowledge about the Bay and its watershed through a week-long canoe trip for all ages for a close-up look at the Bay's natural and cultural resources.

Results: The CBRF grant supported the vital preparation of a week-long James River Sojourn, which is a week-long canoeing expedition that features ongoing educational programming, riverside camping, restoration projects, festive meals, and meetings with elected officials. Participants enjoy unique on the water experimental learning that builds a strong environmental ethic. The sojourn showcased the natural and human significance of the Chesapeake tributary.

Amount granted: \$10,000.00

P.O. Box 1981  
Richmond, VA 23218  
804-775-0951

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**Chesapeake Bay Foundation**

**Project #: 000-032**

Plan: CBF is requesting support to enhance and expand submerged aquatic vegetation (SAV) throughout the Virginia portion of the Bay watershed by training citizen volunteers and teachers on the importance of SAV to the health of the Bay.

Results: The fund enabled the Chesapeake Bay Foundation to expand upon their earlier efforts to restore underwater grasses in three rivers in Virginia, which are the Back, the Lynnhaven, and the Rappahannock.

Amount granted: \$16,500.00

1108 E. Main St., Suite 1600  
Richmond, VA 23219  
804-780-1392

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**Tidewater Oyster Gardeners Association**

**Project #: 000-034**

Plan: The Association proposes to develop educational presentations and exhibits for use with elementary and high schools and general audiences. They would also like to develop and maintain a website that can provide interested Virginia citizens information regarding oyster gardening.

Results: TOGA continued its education project, teaching people how to grow oysters in aquaculture. Approximately 510 people were mailed their newsletter and three other informational mailings.

Amount granted: \$750.00

8218 Hell Neck Rd.  
Gloucester, VA 23061-2528  
804-694-4407

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**Friends of Bull Run, Inc.**  
**Project #: 000-039**

Plan: FoBR proposes to educate its neighbors in Prince William County on the value of the Bull Run Mountains and their relationship to water. They would do this through a demonstration of a wildlife habitat garden, brochures, a curriculum watershed workbook, and designing a website.

Results: The H. A. Allard Native Plant Garden is installed, the sign is displayed, and the brochure is printed. The garden is an example of how to provide wildlife food and shelter. The brochure provides information on the benefits of wildlife native plants to wildlife, as well as where to purchase native plants. Teachers now have a resource to teach local ecology that is geared to the SOLs.

Amount granted: \$8,000.00

17405 Beverley Mill Dr.  
Broad Run, VA 20137  
540-364-9996

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**York County Beautification Committee**  
**Project #: 000-040**

Plan: YCBC proposes to plant a bay-friendly landscape demonstration project "YorkScapes" at their new library which will include the posting of an educational sign and labels identifying the plants and shrubs used. These plants will help educate the public on how to create beautiful landscapes that require little water or maintenance in their own yards and neighborhoods.

Results: "YorkScapes" provides a living and diverse educational exhibit where citizens of York County can learn landscaping principles of water conservation and the reduction of water pollution as a result of stormwater runoff and the development of diverse habitats for songbirds, small mammals, and butterflies. York County residents can help to improve water quality in the Bay and tributaries as well as restore lost wildlife habitat.

Amount granted: \$4,000.00

145 Goodwin Neck Rd.  
Yorktown, VA 23692  
757-890-3780

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**Hoffler Creek Wildlife Foundation, Inc.**

**Project #: 000-055**

**Plan:** The Foundation needs funds to pay the architect's fees for completing the blueprints and overseeing construction of the nature center. Only then they can implement their school tours program to change the way school children, parents, and teachers view energy consumption and waste.

**Results:** During this grant period, Hoffler Creek Wildlife Foundation has gained widespread recognition as a valuable resource in the Hampton Roads community. The 142-acre Hoffler Creek Wildlife Preserve it manages is now included in the National Parks Service's Chesapeake Bay Gateways Network and is a designated attraction on Virginia's new Birding and Wildlife Trail, promoted by the Department of Game and Inland Fisheries. Demand for the Preserve and its programs are growing rapidly as more people visit the preserve to work, learn, or rest. Educational outreach also extends into the community as the Foundation's staff travels to schools and recreation centers, clubhouses, and conferences throughout the region.

**Amount granted:** \$10,000.00

505 Washington St., Suite 404  
Portsmouth, VA 23704  
757-398-9151

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**National Wildlife Federation**

**Project #: 000-065**

**Plan:** NWF requests funding for a Backyard Wildlife Habitat program outreach and education efforts that will positively impact Virginia's Bay watershed. They plan to do this through exhibits, educational presentations, and workshops.

**Results:** With assistance from this grant, the National Wildlife Federation educated and activated citizens of Virginia about the importance of natural landscaping to the health of the local environment and the Chesapeake Bay watershed community-wide projects. The fund was used specifically to provide training materials and resources for Habitat Stewards and Schoolyard Habitats workshops.

**Amount granted:** \$3,000.00

11100 Wildlife Center Dr.  
Reston, VA 20190-5362  
703-438-6000

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**Crater Planning District Commission**  
**Project #: 000-066**

Plan: CPDC and the Appomattox River Corridor Plan Working Group prepared an Appomattox River Corridor Plan Summary. It recommends building partnerships with public and private organizations, including schools, to protect the water quality of the River. The goal of this project is to increase student understanding and awareness about the Appomattox River watershed, its subwatershed, and to promote better stewardship of the Corridor's land and water.

Results: Crater Planning District Commission, in partnership with the City of Petersburg, Richard Bland College, and Virginia State University, conducted an Appomattox River Clean-Up and Riparian Buffer Restoration project. There were four clean-up sites along the river corridor. Among them, after the clean-up, two were further improved and selected for tree plantings - Pocahontas Island in Petersburg and the Lake Chesdin Boat Landing in Dinwiddie County. As a result of the clean-up, the volunteers and students appreciated the river and the importance of land and water stewardship. Two riparian buffer areas were established along the Appomattox for better water quality protection.

Amount granted:       \$1,000.00

P.O. Box 1808  
Petersburg, VA 23805  
804-861-1666

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**Va. Institute of Marine Science/Center For Coastal Resources Management  
(Chesapeake Bay Watch)  
Project #: 000-070**

Plan: The Center For Coastal Resources Management at VIMS seeks funds to produce 45-60 second educational segments having their scientists discuss issues pertinent to the Bay and its resources in Virginia. Segments will include natural history, current issues, plant and animal species, and seasonal changes in the Bay.

Results: The Chesapeake Bay Watch public service announcement series has been successfully launched with the following four topics: oyster reefs, horseshoe crabs, shoreline erosion, and rapa whelks. The oyster reef segment discusses the importance of oysters to the bay and methods for increasing oyster production. The horseshoe crab segment discusses the unique qualities of this interesting Bay animal. The shoreline erosion segment guides viewers through mechanisms used to track eroding shorelines. The rapa whelk segment reports on the invasion of the Bay by this exotic snail.

Amount granted: \$15,000.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7386

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**Rappahannock Area Development Commission  
Project #: 000-076**

Plan: RADCO proposes to redesign the current web page and turn it into a fully interactive forum to help the voluntary Rappahannock River Tributary Strategy.

Results: Returned \$4,233.61 of the grant funds. No future funding.

Amount granted: \$6,283.00

3304 Bourbon St.  
Fredericksburg, VA 22408  
540-373-2890

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**Loudoun Soil and Water Conservation District**  
**Project #: 000-081**

Plan: LSWCD and North Fork Goose Creek Watershed Committee would like to sponsor a Watershed Education field trip for adults, focusing on riparian issues.

Results: Loudoun Soil and Water Conservation District and North Fork Goose Creek Watershed Committee involved 30 adults in two Watershed Education field trips that focused on: riparian buffer zones, floodplains, stream morphology, and land use issues facing Loudoun County, Virginia. A four mile section of Goose Creek was used as the outdoor classroom in which participants learned concepts regarding water quality.

Amount granted: \$800.00

30-H Catocin Circle, SE  
Leesburg, VA 20175  
703-777-2075, Ext. 104

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**Monacan Soil & Water Conservation District**  
**(Enviroscape)**  
**Project #: 001-001**

Plan: Monacan SWCD proposes to purchase a NPS Enviroscape model and case to add to their educational programs.

Results: The fund made it possible to purchase an Enviroscape model and curriculum guides for grades 3-12. The Enviroscape model has greatly enhanced the educational program and served a diverse sample of the population in Goochland and Powhatan Counties. Several fourth grade classes from local elementary schools took part in a presentation on watersheds, which included Enviroscape activities, giving them hands-on learning, and addressing fourth grade science SOLs.

Amount granted: \$1,037.50

P.O. Box 66  
Goochland, VA 23063  
804-556-4936

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**Hoffler Creek Wildlife Foundation, Inc.**

**Project #: 001-003**

Plan: Hoffler Creek proposes to hire an Education Coordinator who will develop at least three community awareness programs, conduct student volunteer projects and work days, and arrange visits by Portsmouth Public School classes at their Wildlife Preserve.

Results: The project enabled HCWF to establish itself as an integral part of the local environmental arena and to deliver important programs and products to people of all ages. The grant has resulted in opportunities for service to the environment and has energized a growing corps of volunteers willing to share their time and talents to HCWF's goal of improving the quality of life in the community.

Amount granted: \$15,000.00

505 Washington St., Suite 404  
Portsmouth, VA 23704  
757-398-9151

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**Goose Creek Scenic River Advisory Board**

**Project #: 001-008**

Plan: GCSRAB proposes to publish a brochure outlining the need for reducing nonpoint source pollution, thereby protecting the integrity of the water of Goose Creek. It will be distributed to riparian landowners, localities, and schools in the area.

Results: The purpose of this project was to outline the need for reducing nonpoint source pollution, thereby protecting the integrity of Goose Creek. A brochure was created and sent to all the riparian landholders on Goose Creek and the Board of Supervisors of both Loudoun and Fauquier Counties, as well as all the high school and middle school principals in Loudoun County. Follow-up letters were also sent emphasizing the continuing need for stewardship of the Creek and inviting them to become active participants of the stewardship.

Amount granted: \$2,300.00

46753 Winchester Dr.  
Sterling, VA 20164-2200  
703-430-3668



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**Crater Planning District Commission**  
**Project #: 001-022**

Plan: CPDC will work with the Friends of the Appomattox River (FAR) to prepare a 3-fold promotional brochure to increase public understanding and awareness about the Appomattox River watershed, its subwatershed, and to promote better stewardship of the Corridor's land and water.

Results: The project consisted of designing a logo for a nonprofit watershed organization, Friends of the Lower Appomattox River (FOLAR), and preparation of a FOLAR brochure. The purpose was to increase public understanding and awareness of the Appomattox River watershed and to promote better stewardships of the watershed's land and water. With the assistance of eighth graders from six middle schools from Lower Appomattox watershed and the assistance of a graphic designer, the brochure was completed.

Amount granted: \$2,400.00

P.O. Box 1808  
Petersburg, VA 23805  
804-861-1666

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**Piedmont Environmental Council**  
**Project #: 001-023**

Plan: PEC proposes to preserve farmland and protect water quality in the Hughes River and Goose Creek watersheds through voluntary land conservation and riparian buffer restoration. This will be accomplished by fostering the development of local watershed protection organizations, educating community members about the resources of the river and the links between land use and water quality, and assisting landowners in using a variety of watershed protection tools.

Results: The report, *Hughes River Watershed Assessment*, provides an overview of the current physical condition of the watershed and discusses each of the seven project objectives from the original grant application and the work to achieve these objectives.

Amount granted: \$20,000.00

P.O. Box 460  
Warrenton, VA 20188  
540-347-2334

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**Va. Institute of Marine Science  
Sea Grant Marine Advisory Program  
(Oil Spill Prevention Education Kits)  
Project #: 001-025**

Plan: The Sea Grant Marine Advisory Program at VIMS proposes to involve marina staff in educating boaters about ways they can control petroleum pollution with better boating practices. They are requesting funds to distribute 1,000 Fuel Collar Education Kits, 1,000 Spill Prevention Education Kits, and will perform a pre- and post-evaluation of the marina education efforts.

Results: The project developed and distributed 1,000 Fuel Collar Education Kits. The pre- and post-evaluation showed a 16 percent increase in education efforts by marina owners/operators. The quality of the education efforts, while subjective, increased dramatically. The results of this project indicate that a majority of marina owners, marina staff, and boaters are willing to change their practices to ensure that less pollution enters the waters of the Chesapeake Bay.

Amount granted: \$11,000.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7768

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**Culpeper Soil & Water Conservation District  
(River R.A.T.S.)  
Project #: 001-044**

Plan: Culpeper SWCD proposes to update and republish 21 copies their (1999) "Rappahannock River Awareness Teaching Supplement," which addresses basic soil and water science, natural resource conservation, and watershed management based decision-making processes. Three copies of the new version will be distributed to each school within the district, six copies to other SWCDs in the Rappahannock Basin, and additional copies on a cash reimbursement basis.

Results: The project focused on production of a watershed teaching supplement for grades K-12 that is specific to the Rappahannock River Basin. The lessons/activities outlined in the supplement are correlated to specific Standards of Learning. The project will result in putting a curriculum supplement in the hands of science educators that is specific to the region. This will benefit students by making their lessons more relative to where they live.

Amount granted: \$1,190.00

351 Lakeside Dr.  
Culpeper, VA 22701  
540-825-8591

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**County of Albemarle**  
**(Va. Dept. of Engineering & Public Works)**  
**Project #: 001-053**

Plan: The County of Albemarle seeks funding to have 250 of their signs "WATERWAY BUFFER ZONE: VEGETATION PROTECTED BY COUNTY CODE" produced to post along the most important stream buffers in the county on public and private land.

Results: With the help of the CBRF, the County of Albemarle designed and produced 510 signs to delineate stream buffers and protect them from inadvertent or intentional clearing. The signs with "Waterway Buffer Zone: Vegetation Protected by County Code" will help with the protection of local streams, area reservoirs, and the Chesapeake Bay for years to come.

Amount granted: \$3,150.00

401 McIntire Rd., Room 211  
Charlottesville, VA 22902-4596  
804-296-5861

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**James River Association**  
**Project #: 001-054**

Plan: James River Association requests funding for the development, production, and distribution of "State of the James" reports, CDs, and website to increase public awareness of water quality, land use, and natural resource issues by illustrating changes to the James River watershed over the past 25 years.

Results: The James River Association published a "State of the James" report, which provided an overview of the status of the James River and its natural resources over the past 25 years. The report examines the land use, living resources, wetlands, and water quality of the James River watershed and serves as a valuable source of information for localities, state agencies, citizens, and public and private entities in formulating strategies to manage the James River watershed for generations to come. Five thousand copies of the report were printed and approximately 1,000 copies have been distributed.

Amount granted: \$24,250.00

P.O. Box 110  
Richmond, VA 23218-0110  
804-730-2898

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**Friends of Chesterfield's Riverfront  
Project #: 001-058**

Plan: The Friends of Chesterfield's Riverfront are requesting funds for their "Best of the Bay Landscape Model Project," which focuses on how individuals can make a difference by designing their properties using Virginia's native plant materials and the "BayScapes" concepts initiated by the Alliance for the Chesapeake Bay.

Results: The grant has allowed the Friends of Chesterfield's Riverfront the opportunity to establish an ongoing landscape awards program for the community. The educational aspect of this project has been essential in establishing a framework for which to base the program. The awards program is an incentive for businesses and citizens already educated about BayScapes.

Amount granted:       \$3,700.00

P.O. Box 2158  
Chesterfield, VA 23832  
804-796-6091

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**Loudoun Soil & Water Conservation District**  
**Project #: 001-061**

Plan: Loudoun SWCD proposes for their "Riparian Forest Arbor Day Celebration" at Banshee Reeks to promote the benefits of implementing BMPs in everyday living. They plan to plant 500 hardwood tree seedlings with tree shelters around them on a two-acre riparian buffer along 1,500 feet of Goose Creek and a live Indian exhibit to demonstrate the various ways that Indians used wood for food and shelter.

Results: The Riparian Forest Field Day held on April 5, 2001, was attended by 120 students who planted over 500 trees and protected them with tree shelters to create a two-acre riparian buffer along 1,500 feet of Goose Creek. Students were assisted by parents, volunteers, and agency staff from Loudoun Soil and Water Conservation District, Natural Resource Conservation Service, Loudoun County Parks and Recreation, Virginia Department of Game and Inland Fisheries, and Virginia Department of Forestry with tree planting and educational activities about forest ecology, wildlife habitat, and the importance of trees in Native American culture. On April 28, 2001, over 700 people attended a formal Arbor Day Celebration featuring the award winners of the Arbor Day poster contest with the theme of "Streams and Treeples Go Hand in Hand." The grant helped the Arbor Day events to provide the opportunity to promote Best Management Practices to all age groups.

Amount granted: \$1,200.00

30-H Catoctin Circle, SE  
Leesburg, VA 20175  
703-777-2075, ext. 104

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**Mattaponi & Pamunkey Rivers Association, Inc.**  
**Project #: 001-062**

Plan: As part of the development of a 100-mile, 30-station "York River Trail," MPRA requests funding for the contract labor development costs and publication of a feasibility study and implementation guidelines advisory covering the maze of governmental rules and regulations impacting such projects.

Results: Using restoration funding, the Mattaponi and Pamunkey Rivers Association was able to complete Phase I of a two phase effort to develop essential development guidelines and an advisory document for use by water trail builders across Virginia. MPRA's final product, developed in the course of planning and establishing the York River Water Trail, will advise emerging trail organizations as to how to proceed in building and holding critical community support, generate project implementation funds, and recruit community volunteers in the planning and establishment of water trails in the Commonwealth.

Amount granted: \$10,000.00

P.O. Box 157  
Walkerton, VA 23177  
804-769-0841 or 804-769-1696

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**Friends of the Rappahannock, Inc.**  
**(Parking Lot Biofiltration)**  
**Project #: 001-077**

Plan: FOR proposes to develop a parking lot biofilter "resource packet" for distribution to developers and local government staff, conduct technical and demo site meetings, follow-up design and implementation assistance, and create a pamphlet of the demo site case study.

Results: The Friends of the Rappahannock undertook an outreach and education effort targeted toward builders and developers to promote the use of bioretention on development sites in the Rappahannock Basin. Seventeen personal meetings with construction representatives were conducted resulting in a commitment for the installation of bioretention in their next project. Three of the businesses had already begun design or construction by the close of the grant period. An education resource packet for promoting bioretention was also developed and is used.

Amount granted: \$11,450.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

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**Piedmont Region TMDL Initiative**  
**Project #: 001-078**

Plan: Piedmont Region proposes to provide an educational program to the local communities about what fecal coliform is, its sources, and what people can do to prevent it from entering the Appomattox River and the Bay.

Results: The education program was successful in informing citizens on fecal coliform bacteria. The program has also generated interest in conservation programs and practices by landowners not normally in contact with the districts (resident/owners as opposed to the agriculture community). The information gathered also showed a need for a septic maintenance and pump-out program. With this education program and future programs, the goal of reducing fecal coliform bacteria in the Appomattox River will be realized.

Amount granted: \$1,163.00

HC-02 Box 370  
Buckingham, VA 23921  
804-983-4757, ext. 4

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**Va. Tech - Va. Cooperative Extension**  
**Accomack County 4-H**  
**Project #: 001-079**

Plan: Accomack County 4-H seeks funding to equip 25 4-H camp counselors and five adult volunteers with the skills necessary to teach campers and others concepts in Marine Science and Forestry.

Results: Accomack County 4-H provided training for 78 teens and 26 adult volunteers with the skills necessary to teach campers and others concepts in Marine Science and Forestry.

Amount granted \$9,200.00

23203 Front St., P.O. Box 60  
Accomac, VA 23301  
757-787-1361, ext. 16

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**Elizabeth River Project**  
**Project #: 001-080**

Plan: The Project proposes two campaigns for long-term results in the Elizabeth River watershed: 1. "River Star Education and Outreach Campaign" - raise community awareness on how to prevent toxic substances from entering the Bay's most polluted tributary and to restore critical wetlands and habitat. 2. "Bottoms Up! Campaign to Clean Elizabeth's Bottom" - produce educational tools to raise community understanding of the toxics in the Elizabeth River bottom, which has been identified as the most toxic location on the Bay, and generate support for solutions to remediate toxic sediments on the river floor.

Results: The project resulted in increased education and participation for industries, schools, and the public in the restoration and conservation of the Chesapeake Bay's most toxic tributary, the Elizabeth River. *A River Star Education and Outreach Campaign* heightened the community profile of the Elizabeth River Project's "River Stars" program for industries through the program's first advertising campaign, using billboards, poster, radio announcements, and one-on-one recruiting. Results included the active new participation of major industries in the target area. *Bottoms Up! Education Campaign* brought Hampton Roads' first comprehensive education on benthic or bottom-life ecology. This important campaign addressed the number one pollution problem for the Elizabeth River, reaching about 3,500 middle school students through teacher in-service trainings in partnership with the Virginia Institute of Marine Science.

Amount granted: \$22,000.00

801 Boush St., Suite 204  
Norfolk, VA 23510  
757-625-3648



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**Va. Institute of Marine Science/Center for Coastal Resources Management  
(Chesapeake Bay Watch)  
Project #: 001-092**

Plan: The Center for Coastal Resources at VIMS seeks funding to continue with their 2000 grant to produce and broadcast three additional 30-second educational segments on issues pertinent to the Bay and its resources in Virginia and to disseminate more detailed information to primary and secondary schools.

Results: The project has been successfully completed with eight additional public service announcements with a total of 12 segments. The topics covered include blue crab, fiddler crab, sea nettles, sea turtles, reed grass, sea level rise, sea horses, and blue heron. Each of these topics are of interest to citizens living in and around the Chesapeake Bay.

Amount granted: \$15,000.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7386

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**Town of Urbanna  
Project #: 001-098**

Plan: The Town of Urbanna seeks funding for the design, fabrication, and installation of a 8-10 minute videotape, and a related pictorial graphic exhibit, all which documents the traditional working culture of seafood harvesting.

Results: The initial grant funds have been used to purchase a rear screen 35 mm projection equipment and a Canon GI-1 camcorder. These are being used to produce a 35 mm slide show and eventually a small 15 minute documentary on the people and their occupation as they relate to the Chesapeake Bay and its tributaries.

Amount granted: \$3,000.00

P.O. Box 179  
Urbanna, VA 23175  
804-758-2613

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**Virginia Living Museum**  
**Project #: 002-005**

Plan: The Museum wishes to continue to provide Discovery Boxes to inner city and rural schools by seeking funds to provide a one-week free rental of the boxes, which would include repairs and printing and mailing of the promotional materials.

Results: Funding from this grant has made it possible for the Virginia Living Museum to pursue its goal of creating an awareness of the Chesapeake Bay by involving students from all over Virginia in exciting, active hands-on learning through the Discover Box outreach program.

Amount granted: \$6,421.00

524 J. Clyde Morris Blvd.  
Newport News, VA 23601  
757-595-1900, Ext. 216

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**Beyond Creation**  
**Project #: 002-017**

Plan: Beyond Creation proposes to continue with their "Earth Child" project, which is a mobile playhouse lab that also utilizes Enviroscares. By using both, they are able to demonstrate solutions and alternatives that would reduce pollution in many types of locations and environments.

Results: One large two day demonstration in Washington, DC at the Sustainability Fair was completed. The remaining funds were returned as the fair was not held the next year.

Amount granted: \$5,000.00

P.O. Box 702  
Tasley, VA 23441  
937-727-1040 or 202-488-2707

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**Town of Herndon - Department of Parks and Recreation**  
**Project #: 002-019**

Plan: The purpose of this project is to expand the current nature programs being offered and to act as a community resource. They seek funding for reference materials, nature studies equipment, and to conduct teacher workshops.

Results: Runnymede Park is used as an outdoor classroom by school groups and community organizations. Nature Discover Camp is offered during the summer with over 100 participants. With grant help, new field guides, reference books, and aquatic nets helped each participant experience environmental education.

Amount granted: \$1,000.00

P.O. Box 427  
Herndon, VA 20172  
703-435-6800, Ext. 2113

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**James City County**  
**Division of Parks and Recreation**  
**Project #: 002-028**

Plan: James City County Parks and Recreation requests funds for supplies and an instructor with a background in environmental education and knowledge of the Bay to lead their Chesapeake Water Marshals Camp, which is an eight-week program, three days a week. The camp focuses on the importance of preserving the natural resources of the Bay and its watershed.

Results: A three-day educational camp was held for 600 area children to learn the importance of preserving the natural resources of the Bay and its watershed. Each participant demonstrated an increase in Bay knowledge after participating in educational sessions, art projects, and creating a journal of facts. They also learned about Bay inhabitants through field trips to Chippokes State Park and the Virginia Marine Science Museum as demonstrated through the 3-D art mural that was created. Lastly, the campers learned the importance of maintaining the Bay water quality by conducting a creek clean up and by sampling and testing water at the Powhatan Creek. Each camper increased their knowledge of the Bay and ways to maintain the Bay's health.

Amount granted: \$4,340.00

5249 C Olde Towne Rd.  
Williamsburg, VA 23188  
757-259-3219

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**American Farmland Trust**  
**Project #: 002-033**

Plan: American Farmland Trust's (AFT) Mid-Atlantic Regional Office requests funds to develop and distribute a six-page Delmarva Farmland Strategy brochure, which would include text and charts about Cost of Community Services, Build-Out Analysis, and Agricultural Industry Profiles.

Results: American Farmland Trust was able to disseminate the entire set of studies, as well as an Executive Summary, to partners throughout the Delmarva area. The project benefited local communities working on land use issues by providing them with objective economic information about the agriculture industry and the costs of growth.

Amount granted: \$3,000.00

302 E. Davis St., Suite 201  
Culpeper, VA 22701  
540-829-5220

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**Hoffler Creek Wildlife Foundation, Inc.**  
**Project #: 002-037**

Plan: Hoffler Creek proposes with their "Awareness & Action Campaign" to hire an Education Coordinator who will inform the public as to their own impact on the health of the Bay and to engage them in actions to restore and protect the ecological integrity of their neighborhood air and watersheds.

Results: The educational programs and partnerships resulting from the grant are now being used to enrich the lives of students locally and across the country. Adults are profiting from a wide variety of programs they can apply from creating wildlife habitat on their property to growing oysters in local waters. The grant has also resulted in ongoing opportunities for service to the environment and has energized a growing corps of volunteers willing to share their time and talents to improve quality of life in their community.

Amount granted: \$12,400.00

505 Washington St., Suite 404  
Portsmouth, VA 23704  
757-398-9151

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**Prince William Soil and Water Conservation District (Water Quality Brochure)**  
**Project #: 002-039**

Plan: Prince William SWCD proposes to update and reprint their "Citizen Action Directory for Water Quality" brochure, which provides citizens with contacts who respond to threats to water quality.

Results: *The Citizens Action Directory for Water Quality in Prince William County* has been revised and reprinted from grant funding. Twelve thousand brochures have been printed. As a result of this project, county residents will be able to call the proper office with concerns or questions on lawn care septic systems and other sources of water pollution.

Amount granted: \$525.00

9263 Corporate Circle  
Manassas, VA 20110  
703-361-1710

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**Northern Virginia Regional Commission**  
**Project #: 002-048**

Plan: NVRC proposes to develop and implement a program to identify and promote water quality-friendly lawn care contractors. DCR has compiled a list of lawn care contractors and NVRC would like to expand this list, distribute, and promote this information to citizens regarding the effects of lawn fertilizers and pesticides on local streams and the Bay.

Results: The "Water Friendly Lawn Care Contractor Promotion Program" reduced excess nutrients in the Chesapeake Bay, made lawn care contractors aware of their role in protecting the Bay, provided incentives for water quality protection, informed homeowners of water quality friendly lawn care lawn care contractors, distributed list widely across Northern Virginia, and has ongoing impact through volunteer networks.

Amount granted: \$5,000.00

7535 Little River Turnpike  
Suite 100  
Annandale, VA 22003  
703-642-4624

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**Audubon Naturalist Society of the Central Atlantic States, Inc.**  
**Project #: 002-057**

Plan: ANS proposes to engage residents of two small watersheds (Donaldson Run and Little Rocky Run) in long-term, intensive watershed education and stewardship programs regarding water quality issues.

Results: The fund enabled the formation of two local watershed groups in Northern Virginia capable of conducting ongoing watershed outreach, education, and stewardship activities. The Friends of Donaldson Run Watershed (FDRWS) in Arlington County and the Friends of Little Rocky Run (FLLR) in western Fairfax County have given their local watersheds a voice in watershed management planning efforts in their respective counties and serve as a model of community level organization to educate neighbors about their local streams.

Amount granted: \$3,500.00

8940 Jones Bridge Rd.  
Chevy Chase, MD 20815  
703-803-8400

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**UVA - Institute for Environmental Negotiation**  
**Project #: 002-058**

Plan: The Institute seeks funding to continue teaching classes for their state-wide program in environmental education and leadership by educating concerned Fellows about natural resource issues related to water quality, land use, and community sustainability.

Results: Six sessions in the Virginia Natural Resources Leadership Institute (VNRLI) gave 29 Fellows increased knowledge of Virginia's natural environment and its current challenges and issues, skills in consensus-building, group facilitation and leadership, and new perspectives on conflict in natural resources. Through readings, field trips, guest speakers, and in-class training, this year's Fellows gained new insights and skills to bring back to their communities and organizations throughout Virginia.

Amount granted: \$7,050.00

164 Rugby Rd.  
P.O. Box 400179  
Charlottesville, VA 22904-4179  
804-924-1970

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**Piedmont Environmental Council  
(Handbook Project)  
Project #: 002-067**

Plan: PEC seeks funding to research, compile, publish, promote, and distribute a new publication entitled "Sources for Conservation: A Handbook for Landowners and Non-Profit Organizations" targeted for those interested in exploring conservation options.

Results: The Council has been able to research, design, produce, and distribute *Sources of Funds for Conservation*, a handbook offering an inclusive description of programs that may provide some level of financial assistance to private landowners interested in conserving their properties. The publication includes both state and national programs for protecting land that is home to environmentally sensitive streams, wetlands, forest, or is working pasture or cropland in the Bay watershed. The programs provide full grants, cost-sharing, and low-cost loan assistance for on-the-ground conservation measures or benefits to landowners through reduced taxes.

Amount granted: \$15,000.00

P.O. Box 460  
Warrenton, VA 20188  
540-347-2334, Ext. 21

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**Friends of the Occoquan, Inc.  
Project #: 002-069**

Plan: FOTO proposes to preserve and maintain the Occoquan watershed by upgrading educational materials and displays and educate individuals and groups within the community. They also will recruit volunteers for a Fall 2001 and Spring 2002 clean-up of the Occoquan River.

Results: The grant funds were expended to complete the following activities: upgrade educational materials to educate individuals and groups in the community and to organize Spring and Fall Cleanups of the Occoquan watershed. Educational materials included flyers, displays, and presentations that were used at various community events and meetings. Spring Cleanup involved 150 volunteers that picked up two to three tons of trash along the Occoquan watershed. The Fall Cleanup with 140 volunteers amassed another two to three tons of trash from Occoquan watershed and Fountain Regional Park.

Amount granted: \$5,000.00

P.O. Box 1452  
Woodbridge, VA 22195-1452  
703-624-7124

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**Mattaponi & Pamunkey Rivers Association, Inc.**  
**Project #: 002-078**

Plan: MPRA proposes to continue, as in their 2001 application, the development of a 100-mile, 30-station "York River Trail." They seek funding for 25 percent of the contract labor development costs and publication of a feasibility study and implementation guidelines advisory covering the array of governmental rules and regulations impacting such projects.

Results: As a result of funding, the Mattaponi and Pamunkey Rivers Association was able to start their Schools of Shad educational project. The funds purchased tanks, water pumps, filters, and materials for ShadFair and shad sculptures.

Amount granted: \$8,000.00

P.O. Box 157  
Walkerton, VA 23177  
804-769-0841

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**James River Association**  
**Project #: 002-079**

Plan: James River Association seeks funding to establish a full-time Education/Outreach Program to conduct educational initiatives for landowners throughout the watershed.

Results: The new "James River Resources" website, launched by the association, is designed to be a clearinghouse for information on the natural and historic resources of the James River watershed. The website contains information for use by the general public and educators to easily locate current water level and weather data on the river, a descriptive history of the river and its resources, information and links about the James and its relationship to the Chesapeake Bay, and publications available on various aspects of these resources.

Amount granted: \$21,157.00

P.O. Box 909  
Mechanicsville, VA 23111  
804-730-2898



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**Chesapeake Bay Foundation**  
**Project #: 002-086**

Plan: CBF proposes continuation of their Virginia Watershed Education Program that conducts field trips to educate students and teachers in the Shenandoah Valley and surrounding areas on how to protect and restore the environment. This is an outdoor experience called for in the 2000 Chesapeake Bay Agreement.

Results: The Virginia Watershed Education Program (VWEP), one of six CBF field education centers in Virginia, provided environmental education opportunities to students and teachers in the Shenandoah Valley. The two primary components, on-the-water field trips and teacher training, provided an award-winning education program and 2,000 Virginia students and teachers with a meaningful outdoor experience called for in the Chesapeake 2000 Bay Agreement.

Amount granted: \$40,000.00

1108 E. Main St., Suite 1600  
Richmond, VA 23219-3539  
804-780-1392

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**Va. Tech - Va. Cooperative Extension**  
**Spotsylvania County Extension Office 4-H**  
**Project #: 002-087**

Plan: Spotsylvania County 4-H'ers seek funding for their project entitled "Estuaries Weekend," which will provide a two-night/three-day field trip to the Jamestown 4-H Educational Center. The field trip is aimed at highlighting areas of the Bay watershed, increasing knowledge and skills in environmental education, and providing an opportunity to conduct a community service project in the watershed area.

Results: The fund provided Spotsylvania County 4-H'ers funding for their project entitled "Estuaries Weekend," which provided a two-night/three-day field trip to the Jamestown 4-H Educational Center. The field trip highlighted areas of the Bay watershed, increased knowledge and skill in environmental education, and provided an opportunity to conduct a community service project in the watershed area.

Amount granted: \$4,200.00

P.O. Box 95  
Spotsylvania, VA 22553  
540-582-7096

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**Friends of the Rappahannock, Inc.**  
**Project #: 002-090**

Plan: FOR proposes implementation of their "Model Development Principles" publication by launching an aggressive education and outreach effort to build consensus on the principles to achieve changes in local codes.

Results: The project targeted local government decision makers (key staff and elected officials) with extensive advocacy and education aimed at implementing key recommendations from the Central Rappahannock Model Development Principles developed by community consensus. The project resulted in the passage of five out of seven of the promoted code amendments in Stafford County. In Spotsylvania County, the project resulted in the passage of two of the seven proposed amendments, with the remaining up for consideration. The results are being recognized Bay-wide as setting a standard for the implementation of Low Impact Development.

Amount granted: \$3,990.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

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**The Mariners' Museum**  
**Project #: 002-091**

Plan: The Museum proposes to enhance its educational outreach program by creating 15 environment-oriented backpacks filled with information, reading material, and supplies for hands-on activities designed for children and parents to do together.

Results: Utilization of the fund enabled The Mariners' to produce 15 identical backpacks containing an introductory pamphlet emphasizing the importance of the Mariners' Park, Lake Maury, and the James River. Since the backpacks became available, more than 40 of them have been checked out from the Museum's Admissions Desk, enabling scores of youngsters to learn more about nature and the environment while walking the Noland Trail with their parents/leaders. The program has been popular with parents because it enables them to work on an environmental project with their children.

Amount granted: \$3,074.00

100 Museum Dr.  
Newport News, VA 23606-3759  
Phone #: 757-591-7745

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**Robert E. Lee Soil and Water Conservation District**  
**Project #: 002-092**

Plan: Robert E. Lee SWCD proposes to create a "user's manual" for residents and school children of the Amherst County watershed that would illustrate and explain the watershed and its connections between the James River and Bay.

Results: The principal result of this project is a fully illustrated, 24-page environmental education booklet entitled, *Living in Your Watershed: The Watersheds of Amherst County*. Nearly 8,400 copies have been distributed to residents in Amherst County. Target households were those that received drinking water from the Amherst County Service Authority and, in addition, property owners who lived within the four drinking water watersheds that are covered by the county's Watershed Protection Ordinance. Benefits include informing residents about watersheds, better understanding of the importance of protecting and enhancing water quality, and awareness of opportunities and resources that can help to improve water quality.

Amount granted: \$5,000.00

Route 4, Box 99-K  
Appomattox, VA 24522  
434-352-2819

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**Prince William County - Department of Public Works (Identification Signs)**  
**Project #: 002-098**

Plan: The Department of Public Works proposes to place identification signs using the "Partners for the Potomac" logo at eight designated stream crossings to help raise awareness about streams, watersheds, and the fact that their water flows into the Bay.

Results: The initial grant was designed for Watershed Awareness Signs placed at stream crossings. After contact with the Virginia Department of Transportation, they requested participating in the new Virginia Combined Waterways Signage Program. VDOT authorized placement of signs in five locations. Total cost of the sites was less than original grant; therefore, some funds were returned.

Amount granted: \$5,000.00

4379 Ridgewood Center Dr.  
Prince William, VA 22192  
703-792-7070

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**Henricopolis Soil and Water Conservation District - Va. Cooperative Extension**  
**("BayScaping" Seminars)**  
**Project #: 003-003**

Plan: Henricopolis SWCD, along with the Va. Cooperative Extension, proposes to hold several seminars throughout Henrico County that will emphasize "BayScaping" and the proper nutrient management of urban landscapes. Participants will be awarded a voucher which will cover the cost of a soil test of their property.

Results: The grant was used to pay for soil tests for Henrico County citizens. The program was to increase citizen's awareness of the need to perform soil tests and increase their awareness of nonpoint source pollution. This was accomplished through the voucher program in conjunction with adult educational programs. As a result of this program, more citizens understand and apply only the amounts of fertilizer to their property that is needed thus eliminating a growing source of urban nonpoint source pollution.

Amount granted: \$1,500.00

8600 Dixon Powers Dr.  
Richmond, VA 23228  
804-501-5175

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**James City County**  
**Division of Parks and Recreation**  
**Project #: 003-013**

Plan: As in their 2002 application, James City County Parks and Recreation requests funds for supplies and an instructor with a background in environmental education and knowledge of the Bay to lead their Chesapeake Water Marshals Camp, which is an eight-week program, three days a week. The camp focuses on the importance of preserving the natural resources of the Bay and its watershed.

Results: The free three-day educational camp was held for approximately 600 area children to learn the importance of preserving the resources of the Bay and its watershed. They also learned about Bay inhabitants through field trips to Chippokes State Park, the Virginia Marine Science Museum, and through a fossil hunt and print making exercise. The campers learned the importance of maintaining the Bay water quality by conducting a creek clean-up and by sampling and testing water at York River State Park.

Amount granted: \$5,040.00

5249 C Olde Towne Rd.  
Williamsburg, VA 23188  
757-259-3224

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**Coastal Virginia Wildlife Observatory**  
**Project #: 003-014**

Plan: CVWO proposes to increase awareness concerning the Bay by providing printed materials to the public and schools regarding the need to preserve coastal habitats for migratory birds and Monarch butterflies.

Results: The grant enabled the Observatory to produce 1,000 copies of the 16-page Annual Research Report, 5,000 copies of the color brochure, and 1,000 copies each of the black and white butterfly and raptor research brochures. Materials have been distributed to eight coastal school districts and the Observatory hopes to have more interaction with the schools as a result of the grant-funded materials.

Amount granted: \$2,500.00

P.O. Box 12  
Eastville, VA 23347  
757-259-3123

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**Northern Virginia Regional Commission**  
**(Preserving the Occoquan Watershed)**  
**Project #: 003-018**

Plan: NVRC requests funds to produce and distribute a film on the Occoquan watershed and develop support materials so that the film can be used by area educators to help with the SOLs.

Results: The project extended education and outreach in the Occoquan watershed through reproduction and distribution of 200 VHS and 150 DVD copies of the film, "Reclaiming Our Water: The Occoquan River Watershed." The project included development of a film guide that encouraged watershed stewardship and provided educators with ideas for hands-on activities and additional resources. The film and guide were distributed to schools, libraries, governmental agencies, utilities, and other organizations in the Occoquan watershed.

Amount granted: \$15,000.00

(This total may be used for Project # 003-018 or #003-019 at the discretion of the recipient)

7535 Little River Turnpike  
Suite 100  
Annandale, VA 22003  
703-642-4624

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**Northern Virginia Regional Commission  
(Preserving the Occoquan Watershed)  
Project #: 003-019**

Plan: NVRC proposes to increase public awareness and knowledge of the Occoquan Watershed and its relationship to the Bay through hands-on opportunities to reduce nonpoint source pollution.

Results: The Occoquan River and Reservoir Water Trail Guide was designed to foster watershed stewardship by using an enjoyable outdoor activity to develop appreciation of the Occoquan and increase understanding of watersheds, stormwater, and the benefits of riparian buffers. A weatherproof interpretive sign, in association with the water trail, is intended to educate visitors about the importance and functions of riparian buffers. Both the sign and the water trail guide remind citizens of how to protect the Occoquan, the Potomac, and the Chesapeake Bay.

Amount granted: \$15,000.00  
(This total may be used for Project # 003-018 or #003-019 at the discretion of the recipient)

7535 Little River Turnpike  
Suite 100  
Annandale, VA 22003  
703-642-4624

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**Alliance for the Chesapeake Bay  
Project #: 003-038**

Plan: As part of the "Builders for the Bay" initiative, the Alliance proposes to conduct two educational workshops on Better Site Design and the local roundtable process, selecting one local roundtable location in Northern Virginia for hands-on assistance.

Results: The grant supported two workshops that were instrumental in initiating a local site planning roundtable process in James City County. *Builders for the Bay* aimed to heighten awareness of environmentally responsible development, change public attitudes, and perceptions of low impact development/better site design, foster regional cooperation, and eventually increase the market/demand for the on-the-ground installation of these innovative practices.

Amount granted: \$12,600.00  
530 E. Main St., Suite 501  
Richmond, VA 23219  
775-0951

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**Reston Association Central Services Facility**  
**Project #: 003-042**

Plan: RA proposes to produce a brochure to educate other homeowners, community associations, and local groups on developing and implementing small-scale, individually applied watershed improvement projects, BMPs, and LID techniques.

Results: Funding from the grant was used to produce and distribute a multi-panel educational brochure for homeowners that provided information on pollution prevention and small-scale watershed improvement ideas that incorporate low impact development techniques. Local improvements in water quality and a higher level of awareness among local citizens were the desired result.

Amount granted: \$4,210.00

12250 Sunset Hills Rd.  
Reston, VA 20190-3230  
703-435-6560

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**Hampton Parks and Recreation Department**  
**Project #: 003-049**

Plan: Hampton Parks and Recreation seeks funds for materials and supplies to conduct a Beach Explorer Camp Project at Buckroe Beach Park. The project will be used to increase the ecological and conservation knowledge of the Bay and its marine and animal life to the citizens of Hampton Roads.

Results: The monies provided to the City of Hampton Parks and Recreation Department assisted in the development of interpretive and experimental programming for area youth. The materials purchased allowed program participants to discover some of the flora and fauna of the southern Chesapeake Bay.

Amount granted: \$1,800.45

22 Lincoln St.  
Hampton, VA 23669  
757-850-5134

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**Elizabeth River Project**  
**Project #: 003-081**

Plan: The Project requests funds for two education initiatives: (1) "River Information Center," which will open in 2003 and (2) "Message in a Bottle" for River Star Schools. These outreach programs are another way to help restore the environmental quality of the Elizabeth River on the Bay.

Results: The project resulted in the first River Information Center opening which increased public outreach, education, accessibility, and visibility to the community. The center includes a live 150 gallon six-foot aquarium depicting a healthy Elizabeth River and action oriented hands-on exhibits that provide information on wildlife habitat, River Stars, The Elizabeth River Project, and the Elizabeth River. The Elizabeth River Project's Volunteer Coordinator recruited, screened, trained, and scheduled a core group of 20 volunteers that served as River Information Host and over 300 volunteers for events such as plantings, clean-ups, water quality monitoring, and more. The project has broadened its outreach opportunities and strengthened its education initiatives to support this most important river restoration.

Amount granted: \$10,000.00

801 Boush St., Suite 204  
Norfolk, VA 23510  
757-625-3648

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**UVA - Institute for Environmental Negotiation**  
**Project #: 003-083**

Plan: As in their 2002 grant application, the Institute seeks funding to continue teaching six three-day seminars for their state-wide program in environmental education and leadership by educating concerned Fellows about natural resource issues related to water quality, land use, and community sustainability.

Results: Each year 30 Virginians complete the program with an increased understanding of the state of wildlife in the Bay, the impacts of land use on the Bay's water quality, and the stakeholders involved. They bring skills necessary to address natural resource issues to their communities and workplaces across the Commonwealth. The key benefit of the program is the combination of skills training and educational content.

Amount granted: \$10,000.00

164 Rugby Rd.  
P.O. Box 400179  
Charlottesville, VA 22904-4179  
434-924-1970



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**The Virginia Eastern ShoreKeeper  
Project #: 003-103**

Plan: ShoreKeeper proposes to develop and update an educational program designed to inform a cadre of volunteer Creek Watchers on the major sources of pollution and the impact it has on the Shore's tidal waters. They will also develop a slide and/or video program showing a need for advocacy and stewardship.

Results: The fund supported a volunteer program of devoted and informed citizens helping to identify the major sources of pollution and its impact on the tidal waters of the Eastern Shore. The development and printing of the *Creek Watcher Volunteer Manual* provided a summary of key laws and regulations with a resource list of agencies and organizations. They also recruited and continued to recruit Creek Watchers and conducted 48 hours of on-the-water patrols.

Amount granted: \$4,000.00

5248 Willow Oak Rd.  
P.O. Box 961  
Eastville, VA 23347-0961  
757-331-1450

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**Piedmont Soil & Water Conservation District  
(Sustainability Workshop)  
Project #: 003-113**

Plan: Piedmont SWCD requests funds for the purchase of resource materials for their "Sustainability Workshop" to be distributed to local decision makers during a breakfast meeting. The goal of this workshop is to generate interest among local governments for alternative urban practices.

Results: The workshop provided three speakers with the topics of agricultural vitality, green space protection, and low impact development with alternative stormwater management practices. Participants of local officials were provided with tools, resources, and assistance in developing new approaches to ensure the economic, environmental, and social health of their communities when facing development pressures.

Amount granted: \$1,160.00

100-B Dominion Dr.  
Farmville, VA 23901  
434-392-3782, Ext. 115

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**Chippokes Plantation Farm Foundation**  
**Project #: 003-114**

Plan: CPFF proposes for Phase II of their project to place educational signage adjacent to their buffer strips to interpret restoration and conservation procedures and provide an overview of the importance of protecting Virginia's Bay watershed. They also seek funds to develop and conduct eight educational programs geared toward the SOL requirements.

Results: The fund provided an educational program on soil erosion. The fund for the "Where's the Dirt?" program added a SOL program on soil erosion, purchased the major components of the presentation, and educated the future leaders of our communities to a current day problem.

Amount granted: \$1,500.00

Monroe Building  
101 North 14th St., 11th Floor  
Richmond, VA 23219  
804-786-7950

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**Virginia Living Museum**  
**Project #: 004-002**

Plan: As in their 2002 and 2003 grant applications, the Museum wishes to continue to provide Discovery Boxes to inner city and rural schools by seeking funds to provide a one-week free rental of the boxes, which would include repairs and printing and mailing of the promotional materials.

Results: Funding from this grant made it possible for the Virginia Living Museum to help create a greater awareness of the natural history of the Chesapeake Bay by involving students from all over Virginia in exciting, hands-on learning through the Museum's Discovery Box program.

Amount granted: \$6,920.00

524 J. Clyde Morris Blvd.  
Newport News, VA 23601  
757-595-1900, Ext. 216

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**Northumberland Association for Progressive Stewardship  
Project #: 004-007**

Plan: NAPS seeks funding to educate citizens about the importance of marshes and encourage them to "garden" their marshes by removing debris and pruning back vegetation, along with planting a variety of marsh plants and controlling *Phragmites australis*.

Results: Two hundred twenty flats of marsh grass containing 50 plants each were planted at 15 sites, involving 21 property owners. Approximately one half of the sites focused on using *Spartina alterniflora* for erosion control. Citizen education regarding marsh stewardship is a major ongoing goal of the project.

Amount granted: \$7,000.00

P.O. 567  
Heathsville, VA 22473  
804-453-6605

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**Virginia Save Our Streams Program  
Virginia Division of the Izaak Walton League of America  
Project #: 004-016**

Plan: As in their 97-03 grant applications, Virginia SOS proposes to continue to train interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring.

Results: The Save Our Streams Program continued to train interested citizens to use a scientifically valid method of water quality monitoring to collect data and to dispense to state agencies to supplement their own data. By stimulating local interest and knowledge of watershed conditions, a positive and meaningful vehicle for citizen stewardship is maintained.

Amount granted: \$10,000.00

7598 N. Lee Highway  
Raphine, VA 24472  
540-377-6179

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**James City County**  
**Division of Parks and Recreation**  
**Project #: 004-020**

Plan: As in their 2002 and 2003 grant applications, James City County Parks and Recreation requests funds for supplies and an instructor with a background in environmental education and knowledge of the Bay to lead their Chesapeake Water Marshals Camp, which is an eight-week program, three days a week. The camp focuses on the importance of preserving the natural resources of the Bay and its watershed. New for 2004, they would also like to offer the program to the Days of Discovery Special Needs Summer Camp.

Results: The grant funds paid for supplies and an environmental education instructor for a Chesapeake Water Marshals Camp. The three day camp exposed over 600 children from several different summer campsites to the importance of preserving the natural resources of the Bay and its watershed. The successful program resulted in an increased knowledge of the bay, the harmful effects of pollution, and the different inhabitants that live in the delicate watershed.

Amount granted: \$5,720.00

5249 C Olde Towne Rd.  
Williamsburg, VA 23188  
757-259-322

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**James River Association**  
**Project #: 004-029**

Plan: JRA is requesting funding for their Environmental Education and Outreach Program, which will expand environmental educational opportunities and the use of existing educational resources in schools and community programs for students, teachers, and adults and increase the involvement of students and the public in Bay restoration activities.

Results: The fund enhanced the Education and Outreach Program and fostered stewardship throughout the James River watershed. Specifically, the fund provided information to enhance the ability of citizen and community groups to participate in Bay restoration activities, developed and maintained a web-based clearinghouse of this information for use by educators, provided a meaningful Bay or stream experience for every school student in the watershed, forged partnerships with institutions of higher learning to integrate information about the Bay watershed into school curricula, and provided students and teachers with opportunities to directly participate in local restoration and protection projects.

Amount granted: \$24,667.00

P.O. Box 909  
Mechanicsville, VA 23111  
804-730-2898

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**Interstate Commission on the Potomac River Basin**  
**Project #: 004-031**

Plan: CPRB proposes for the "You dump it. You drink it." project launched by the EPA the distribution of oil and antifreeze recycling information to do-it-yourself mechanics in the counties of Arlington and Fairfax.

Results: The "Bring Every Quart Back" oil recycling campaign, paid for partially by the CBRF, worked to inform the public in Northern Virginia of the importance of properly disposing of motor oil, how to properly dispose of used oil, and the locations of the nearest free recycling stations in the Washington metropolitan area. The grant, in combination with a grant from the National Fish and Wildlife foundation, paid for the printing of brochures and funnels, the creation of public service announcements (PSA) for radio and television, and in-store television advertisements for Advance Auto Stores - all detailing the importance of recycling motor oil. Through creative efforts, the Commission reached their targeted audience.

Amount granted: \$10,000.00

6110 Executive Blvd.  
Suite 300  
Rockville, MD 20852-3903  
301-984-1908, ext.103

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**The Virginia Eastern Shorekeeper**  
**Project #: 004-041**

Plan: Shorekeeper proposes to develop audio/visual PowerPoint presentations that will make the case for the need to reduce adverse impacts on marine waters and inform people what they can do to protect their creeks and bays. They seek funding for a photographer, graphic designer, laptop, and PowerPoint software.

Results: The Virginia Eastern SHOREKEEPER program planned and developed a multi-media presentation for delivering the message of "*Protecting, Preserving and Improving the quality of the tidal waters of the Eastern Shore of Virginia*" to local citizens and local decision makers. Equipped with the imagery and presentations developed through funding provided by the CBRF, the Virginia Eastern SHOREKEEPER can better keep public focus on the water quality issues affecting the Eastern Shore of Virginia.

Amount granted: \$5,600.00

5248 Willow Oak Rd.  
P.O. Box 961  
Eastville, VA 23347-0961  
757-331-2764

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**Hoffler Creek Wildlife Foundation, Inc.**

**Project #: 004-049**

Plan: Hoffler Creek seeks funding for their "Tell It Like It Is" project designed to promote environmental stewardship in Hampton Roads by providing new signage and updated literature and training materials for use at Hoffler Creek Wildlife Preserve.

Results: Grant funding enabled HCWF to create and produce interpretive signage and educational materials that advance stewardship of natural resources in the Chesapeake Bay watershed. Already, more than 1,000 visitors to Hoffler Creek Wildlife Preserve have been exposed to deliverables that inform and inspire people to become wise stewards of the environment.

Amount granted: \$7,500.00

505 Washington St., Suite 404  
Portsmouth, VA 23704  
757-398-9151

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**Virginia Institute of Marine Science  
Chesapeake Bay National Estuarine  
Research Reserve in Virginia  
(Water Quality Curriculum & Teacher Workshops)  
Project #: 004-051**

Plan: The Chesapeake Bay National Estuarine Research Reserve in Virginia, managed by VIMS, seeks funding to create a high school level Bay water quality curriculum and conduct three one-day workshops to train 60 teachers in water quality issues and use of the developed curriculum.

Results: The fund supported two-day workshops and water quality activities to enable teachers to begin or expand upon their water quality and Chesapeake Bay curricula and incorporate real-world data collected in the Chesapeake Bay to address biology, earth science, probability and statistics, computer mathematics, and chemistry SOLs.

Amount granted: \$5,411.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7119

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**Virginia Institute of Marine Science - Center for Coastal Resources Management  
(Riparian Buffers)  
Project #: 004-053**

Plan: The Center for Coastal Resources Management at VIMS seeks funding for the development of an educational one-day training program designed to increase the awareness of the functions and values of riparian forested buffers. The program will be presented to a local planning district commission for evaluation and modification.

Results: An interagency steering committee of coastal resource managers discussed educational needs specific to Chesapeake Bay riparian buffers in the Coastal Plain. Curriculum for a multi-day intensive course was prepared for a specific target audience of natural resource managers and professional staff. This grant supported the development of an interdisciplinary curriculum for the first day of the course series. This course series will provide scientific background for existing regulations as well as training and assistance for effective enforcement, improved compliance, and more effective communication with the regulated public about the Chesapeake Bay Preservation Act.

Amount granted: \$3,000.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7159

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**Wetlands Watch, Inc.  
Project #: 004-057**

Plan: Wetlands proposes four educational mailings to waterfront property owners in Norfolk and Va. Beach to help them become better stewards of their backyard wetlands. They seek funds for the printing of their brochures.

Results: The fund helped pay for the production and mailing of an educational brochure to the waterfront homeowners of Norfolk and Virginia Beach. The impact of the mailing can be seen in e-mail, telephone, and mail responses that were received from citizens in the month following each mailing and the increased number of visits to their website. Most of the citizens' responses led to some action by Wetlands Watch to provide further information or other assistance. The grant from the CBRF, leveraged with other monies, improved the "wetlands awareness" of 11,000 waterfront homeowners in Hampton Roads.

Amount granted: \$5,000.00

P.O. Box 9335  
Norfolk, VA 23505  
757-587-4744

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**Friends of the Occoquan  
Project #: 004-058**

Plan: As in their 2002 and 2003 grant applications, FOTO proposes to preserve and maintain the Occoquan watershed by upgrading educational materials and displays, educate individuals and groups within the community, and recruit volunteers for a Fall 2003 and Spring 2004 cleanup. In this grant, they will also install signs written in English and Spanish at the Four Mile Run Basin, recruit the Hispanic community for their annual cleanup, and distribute translated watershed literature to same.

Results: The funds enabled Friends of Occoquan to complete the following activities: one Fall 2003 Occoquan River Cleanup, one Spring Occoquan River Cleanup, and the design and installation of 12 International/Bilingual Signs along the Four Mile Run in Arlington and Alexandria. The Fall Cleanup was attended by 128 volunteers cleaning three tons of trash and Spring Cleanup with 130 volunteers that cleaned three tons of trash.

Amount granted: \$5,000.00

P.O. Box 1452  
Woodbridge, VA 22195-1452  
703-624-7124

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**Chesapeake Bay Foundation  
Project #: 004-060**

Plan: CBF seeks continued funding for their Virginia Education Program by providing students the opportunity to participate in Bay field trips and in partnership with the National Geographic Society, underwrite 10 teachers in the "Chesapeake Classrooms Initiative" program, which offers workshops on how to conduct field experiences, habitat enhancement projects, and how to integrate the environment and supplementary curriculum materials into classroom instruction.

Results: Through field programs, teacher training, and curriculum modules, CBF in Virginia involved over 300 classrooms and over 9,000 students during the period of this grant. Teachers and students received hands-on Bay experiences that were complimented with curriculum and other related materials for use in the classroom and community. Partnerships with local, state, and nongovernmental agencies and organizations helped to expand CBF's program geographically, but provided technical support and training for their field and restoration programs.

Amount granted: \$30,000.00

1108 E. Main St., Suite 1600  
Richmond, VA 23219-3539  
804-780-1392



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**Tidewater Resource Conservation & Development Council**  
**Project #: 004-068**

Plan: RC&D seeks funding for a watershed coordinator to demonstrate the use of their Hydrolab, recruit and train volunteers, engage public schools in projects using the equipment, and assure quality data is generated that is useable for DEQ.

Results: Students, teachers, and citizens in the Northern Neck have learned the importance of water monitoring through this project. The increased knowledge about the importance of monitoring water will help many to understand what they can do to minimize their impact on the Chesapeake Bay. Three hundred school students at six schools took part in water monitoring demonstrations performed by the watershed coordinator. Five different parameters including water temperature, dissolved oxygen, pH, turbulence, and salinity were demonstrated. Each parameter was illustrated with an interactive discussion helping the students better understand the processes necessary for quality water.

Amount granted: \$12,000.00

772 Richmond Beach Rd.  
Tappahannock, VA 22560  
804-443-1118

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**Prince William County - Department of Public Works (Educational Outreach Activities)**  
**Project #: 004-071**

Plan: Prince William County proposes an outreach activities project geared towards educating homeowners residing around Resource Protection Areas (RPA) on the importance of this valuable resource and why they need to protect this resource. They seek funding for 2,000 educational brochures and installing 25 RPA signs along major RPA corridors.

Results: The fund, along with a substantial amount of county funding, was used for printing and postage of an educational brochure on Chesapeake Bay Resource Protection Areas (RPA). The brochure was mailed to over 9,000 property owners in Prince William County who have RPA protection mapped on their property. The brochure provided environmental information on the Chesapeake Bay Preservation Area regulations and the importance of protecting the RPA.

Amount granted: \$2,000.00

4379 Ridgewood Center Dr.  
Prince William, VA 22192  
703-792-7346

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**Virginia Conservation Network (Educational Display)**  
**Project #: 004-080**

Plan: VCN seeks funding for a pop-up display that will illustrate and convey how air pollution (nitrogen deposition), land use, land development practices, and waste discharge affect the waters of the Commonwealth and the Bay.

Results: Funding was given to provide support for two projects: the inclusion of workshops dedicated to Chesapeake Bay watershed protection at the Virginia Environmental Assembly annual conference (project #1) and the development and production of an educational display on watershed protection for use at the Virginia Environmental Assembly and other educational events (project #2). Both projects were successfully completed with the support from the CBRF.

Amount granted: \$2,000.00  
(This total may be used for either this project or project # 004-081).

1001 East Broad St.  
Suite LL35-C  
Richmond, VA 23219  
804-644-0283

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**Virginia Conservation Network (Educational Program at VEA)**  
**Project #: 004-081**

Plan: VCN proposes to dedicate two workshops of the 2004 Va. Environmental Assembly to the topic of water quality in headwaters and inland areas and how it relates to and impacts the Bay. They seek funding for facility and equipment rental and supplies.

Results: See narrative for fund (04-080)

Amount granted: \$2,000.00  
(This total may be used for either this project or project # 004-080).

1001 East Broad St.  
Suite LL35-C  
Richmond, VA 23219  
804-644-0283

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**The Lake Jackson Citizens Association, Inc.**  
**Project #: 004-084**

Plan: The Association proposes to raise the awareness of their citizens and educate them regarding the specific issues of Septic System Management and Sediment Controls affecting their waterways. They seek funding for a bimonthly educational newsletter, citizens handbook, and the production of a trade show and children's workshop.

Results: The fund supported publication and distribution of a Septic System Management and Erosion/Sediment Control Community Handbook for 550 plus citizens, plus 25 other Prince William County residents that use septic systems and private wells who live near Lake Jackson. Bimonthly articles were added to the handbook plus articles published in the *Heron*. Five information programs ended the project with a Trade Show/Expo event with a hands-on Septic System Model, a Master Gardener presentation, and youth distributing auto/boat trash bags and other informational packets.

Amount granted: \$5,000.00

PMB #111  
10450 Dumfries Rd.  
Manassas, VA 20110-7958  
703-791-6373

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**Ward Burton Wildlife Foundation**  
**Project #: 004-089**

Plan: The Foundation proposes to provide training and resources to 75 teachers, parent volunteers, and community educators to develop 25 Bay-friendly outdoor classrooms around the Commonwealth.

Results: Four Outdoor Classroom Institutes were conducted in Virginia by the Virginia Department of Game and Inland Fisheries in cooperation with the Foundation. The training reached a total of 75 elementary and secondary classroom teachers, as well as school administrators. The goal was to train teams of teachers in the mechanics of conducting Meaningful Watershed Educational Field Experiences by using their schoolyard and local natural areas as the context for learning.

Amount granted: \$15,970.00

2412 Lizard Ridge Rd.  
Bedford, VA 24523  
540-586-6463

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**Boxerwood Education Association**  
**Project #: 004-091**

Plan: Boxerwood proposes for its "Watershed Detectives: Getting a Clue About Woods Creek" project to develop and implement strategies to educate elementary and middle school students and teachers about and to involve them in protecting the health and quality of the Upper James River watershed. They will also train these teachers in watershed-based science that meet State Science SOLs.

Results: Sponsored by the fund, "Watershed Detectives: Getting a Clue About Woods Creek" project, Boxerwood partnered with local schools and conservation organizations to address the new Virginia science SOLs with both students and teachers at the sixth, fourth, and first grade levels. Three hundred and eighty five students experienced hands-on field activities, shared learning, and service learning through planting a riparian buffer along a local tributary to the Chesapeake Bay. Through two sponsored and three partnered workshops, 15 local and 84 area teachers gained experience and relevant watershed resources to pass along to their students.

Amount granted: \$6,200.00

963 Ross Rd.  
Lexington, VA 24450  
540-463-2697

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**Science Museum of Western Virginia**  
**Project#: 004-093**

Plan: The Science Museum seeks funding for their Watershed Gallery, which is a 42-foot river model featuring five interconnected aquatic habitats, from mountain, lake and stream to swamp and coastal zone, each stocked with appropriate live specimens. Their goal is to communicate the concept of a watershed and demonstrate the interconnectedness of habitats across the Commonwealth, from the headwaters to the Bay.

Results: The fund supported the educational *Watershed Gallery*, designed to educate students and the public in Central, Southside, and Western Virginia about their role in preserving the health of the Chesapeake Bay. The Museum's educational program has become a trusted component of the science curriculum for school systems across the region. By working with science supervisors representing local school systems and by meeting teachers in the museum and in their classrooms, the Science Museum of Western Virginia has been able to promote this important educational resource, giving them time to utilize it to the fullest with their students, and helping the Museum to develop the programs these educators need most.

Amount granted: \$20,000.00

One Market Square  
Roanoke, VA 24011  
540-224-1202

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**Friends of Dragon Run, Inc.**  
**Project#: 004-098**

Plan: FODR proposes to develop and sustain broad-based support for conservation through partnership and education on the Dragon Run, a tributary of the Bay. The project will include an educational kiosk, display materials, and a brochure relating to the protection of water quality, fishery habitat, forest management, and maintaining wetlands of the Bay.

Results: The fund enabled Friends to construct educational display kiosks at locations in King and Queen and Middlesex Counties adjacent to Dragon Run. FODR volunteers designed, constructed, and installed the kiosks. The displays highlighted the importance of the watershed, the animal life, and unusual plant life along Dragon Run. FODR volunteers also designed and produced a brochure explaining how activities protect the watershed. This is part of FODR's continuing effort to educate the public and is in support of their goal of long-term protection of the quality of Dragon Run.

Amount granted: \$3,199.00

P.O. Box 882  
Gloucester, VA 23061  
804-693-5246

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**Elizabeth River Project**  
**Project #: 004-107**

Plan: The Project proposes to reach the public with expanded environmental education on the Bay and its most toxic tributary through museum exhibits at the River Information Center, open a new exhibit at the center on the early history of the Elizabeth River, hold six sessions of "River Camp" at the center, reach 20 new River Star Schools in the watershed, and promote these and other education and restoration opportunities through a newsletter, "Mudflats" and an event calendar.

Results: With the generous support of the funds, the River Information Center illustrates the meaning of what a working river is to her community and the importance of the stewardship that follows. Through staff, RIC volunteer hosts, exhibits, live interpretations, lectures, workshops, and resource materials to strengthen the message of the Elizabeth River Project's key goal of restoring the most polluted river on the Bay, the project has been successful.

Amount granted: \$14,000.00

475 Water St., Suite 103A  
Portsmouth, VA 23704  
757-399-7487

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**Eastern Shore Soil and Water Conservation District**  
**Project #: 004-109**

Plan: ESSWCD, as coordinator for the Eastern Shore Environmental Education Council, seeks funding to organize and co-host the 3rd Annual Eastern Shore Watershed Festival to be held at the YMCA's Camp Silver Beach and a quarterly newspaper insert, "Shore Outdoors," which is a seasonal guide to the Shore's natural environment.

Results: The Environmental Education Council leveraged the Bay Restoration Funds with other donations and grants to cover approximately half of the project's cost. Two of the cornerstone outreach efforts, the 2004 Eastern Shore Watershed Festival and the 2004 issues of the newspaper insert, *Shore Outdoors*, have been accomplished with great success and have served to establish both efforts as important community programs addressing local conservation issues and concerns.

Amount granted: \$7,600.00

22545 Center Parkway  
Accomac, VA 23301-1330  
757-787-3581, Ext. 119

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**Coastal Virginia Wildlife Observatory**  
**Project #: 005-003**

Plan: As in their 2003 and 2004 grant applications, CVWO proposes to increase awareness concerning the Bay by providing printed materials to the public and schools regarding the need to preserve coastal habitats for migratory birds and Monarch butterflies.

Results: The grant funding was used to print materials to educate visitors to programs, conducted mainly at Kiptopeke State Park, about the importance of Chesapeake Bay area habitats and associated wildlife. Materials were also mailed to the public and distributed through the Visitor Center at Eastern Shore of Virginia National Wildlife Refuge and the Eastern Shore Birding Festival, reaching thousands of people. The CVWO programs along the Chesapeake Bay include internationally known migratory songbird banding and hawk banding stations and the hawk watch at Kiptopeke, as well as a Monarch butterfly migration census and tagging program on Virginia's Eastern Shore.

Amount granted: \$2,500.00

P.O. Box 912  
Eastville, VA 23347  
757-259-3123

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**Boxerwood Education Association**  
**Project #: 005-017**

Plan: Boxerwood proposes for its "Environmentally Responsible Water Management Model and Education" project to address water runoff and the resulting soil erosion and pollutant transfer into the watershed. They will create a model of water management, involving students and the public, at Boxerwood Gardens and selected schools and present educational programs to same.

Results: With the assistance from the fund, Boxerwood Education Association developed two rain gardens at Boxerwood Gardens and used the gardens and the process as an educational experience for people of all ages. Signs will educate visitors to the gardens. The gardens, the community as a whole, and many other resources were used to explain stormwater runoff. There were 12,518 personal educational contacts, 6,944 direct mailings, and thousands of indirect contacts through 11 newspaper articles showing the necessity and benefits of rain gardens.

Amount granted: \$5,000.00

963 Ross Rd.  
Lexington, VA 24450  
540-463-2697

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**Virginia Conservation Network**  
**Project #: 005-022**

Plan: VCN proposes to conduct four workshops to increase the understanding of the role that streams and riparian buffers play in the protection of water quality and the health of the Bay.

Results: The project stemmed from the successful workshop session, "Headwaters and the Bay" that was conducted at the 2004 Virginia Environmental Assembly. As a result of this grant, VCN staff provided targeted watershed protection education that focused on the importance of healthy watersheds in the headwaters of the Chesapeake Bay watershed to over 300 individuals.

Amount granted: \$3,570.00

1001 East Broad St.  
Suite LL35-C  
Richmond, VA 23219  
804-644-0283

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**James City County**  
**Division of Parks and Recreation**  
**Project #: 005-024**

Plan: As in their 2002, 2003, and 2004 grant applications, James City County Parks and Recreation requests funds for supplies and an instructor with a background in environmental education and knowledge of the Bay to lead their Chesapeake Water Marshals Camp, which is an eight-week program, three days a week. The camp focuses on the importance of preserving the natural resources of the Bay and its watershed. As in 2004, they would also like to offer the program to the Days of Discovery Special Needs Summer Camp.

Results: The Division was awarded grant funds to pay for program supplies and an environmental education instructor for a Chesapeake Water Marshals Camp. The camp ran for three days and introduced over 600 children from several different summer campsites to the importance of preserving the natural resources of the Bay and its watershed. The successful program resulted in an increased knowledge of the bay, an understanding of the harmful effects of pollution, and the different inhabitants that live in the delicate watershed.

Amount granted: \$5,720.00

5249 C Olde Towne Rd.  
Williamsburg, VA 23188  
757-259-3224



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**Fairfax County Park Authority**  
**Project #: 005-026**

Plan: Fairfax County Park Authority proposes a watershed stewardship in the community through teaching monitoring methods of stream health and showing human impacts on watershed health at their Cub Run RECenter and Sully Woodlands Park. They seek funds for the basic equipment to start watershed programming at these sites.

Results: The grant funds enabled the Fairfax County Park Authority at Cub Run RECenter to purchase equipment needed to start a much needed watershed education program. The Cub Run nature programs have served approximately 550 people in Fairfax and Loudoun Counties with programs about watersheds, wetlands, and stream life, using the equipment purchased with the funds. The equipment was used for over 100 hours of staff contact with the public in watershed education programs.

Amount granted: \$3,732.00

12055 Government Ctr. Pkwy.  
Suite 927  
Fairfax, VA 22035-1118  
703-631-0248

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**Eastern Shore Soil and Water Conservation District**  
**Project #: 005-032**

Plan: As was a portion of their 2004 grant application, ESSWCD, coordinator for the Eastern Shore Environmental Education Council, seeks funding to continue the quarterly publication of the "Shore Outdoors," which is a seasonal guide to the Shore's environmental resources as an insert in the area's main newspaper.

Results: The grant supported the publishing of the 20-page booklet, *Living in Your Watershed - the Watersheds of Virginia's Eastern Shore*. The booklet presents watershed concepts tied to local geography and addressing local watershed concerns. The material is based on the Virginia Standards of Learning, but can be appreciated by readers of all ages. The publication promotes stewardship and offers a directory of government and nonprofit offices that assist citizens in resource conservation and protection.

Amount granted: \$5,600.00

22545 Center Parkway  
Accomac, VA 23301-1330  
757-787-3581, Ext. 126

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**Healing Harvest Forest Foundation**  
**Project #: 005-033**

Plan: The Foundation seeks funding to double the number of Biological Woodsmen working in the Bay watershed and to increase and enhance the educational services available to the public. They will be working in the counties of Albemarle, Botetourt, Craig, Orange, and Rappahannock.

Results: The goals of the grant were successfully accomplished. Three new Biological Woodsmen are practicing restorative forestry in the Chesapeake Bay watershed, educated and supported by the fund. The most powerful aspect of this investment is that these individuals will now provide educational services to the public and future Biological Woodsmen. The woodsmen are practicing restorative community-based forestry from the headwaters of the James to the very shores of the tidal Rappahannock.

Amount granted: \$20,000.00

8014 Bear Ridge Rd., SE  
Copper Hill, VA 24079  
540-651-6355

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**Chesapeake Bay Foundation**  
**(Educational Forums)**  
**Project #: 005-038**

Plan: CBF proposes a "Waste Solutions Forum" to address alternative agricultural waste issues, a "Virginia Farmers to Bay Education Exchange" to engage and educate farmers, and a "Citizen Oyster Gardening" project aimed at engaging volunteers and providing native oysters as a natural filter for excess nutrients.

Results: Since agriculture contributes 40 percent of the nitrogen pollution entering the Bay, the fund focused on engaging and educating various stakeholders throughout the Commonwealth in educational forums and hands-on projects that would ultimately reduce nitrogen and improve water quality in the Chesapeake Bay and its tributaries. Specific objectives were to host the *Waste Solutions Forum*, conduct a *Virginia Farmers to the Bay Education Exchange*, and offer the *Citizen Oyster Gardening Program*.

Amount granted: \$22,295.00

1108 E. Main St., Suite 1600  
Richmond, VA 23219-3539  
804-780-1392

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**Chesapeake Bay Foundation**  
**(Clean the Bay Day)**  
**Project #: 005-039**

Plan: CBF seeks funding for their "Clean the Bay Day" project of over 5,000 participants in hands-on involvement with ongoing data collection and dissemination of information to educate and inspire so they can become better stewards of the environment and the Bay.

Results: *Clean the Bay Day* combines multiple program elements that include hands-on citizen involvement with ongoing data collection and dissemination of information to educate and inspire citizens, students, businesses, municipal governments, legislators, and the media to become better stewards of Virginia's environment and the Chesapeake Bay. In 2006, over 4,700 volunteers cleared 310 shoreline miles of 170,300 pounds of debris. The volunteers gained a refined understanding of issues affecting the Bay, including shoreline litter and storm drain runoff as a source of pollution, while helping improve shoreline health.

Amount granted: \$6,634.00

142 West York St., Suite 318  
Norfolk, VA 23510  
757-622-1964

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**Virginia Institute of Marine Science School of Marine Science**  
**Department of Fisheries (Veined Rapa Whelk)**  
**Project #: 005-060**

Plan: As a continuation of their 2002 grant application, VIMS proposes to increase the awareness and scientific literacy of Virginia citizens regarding veined rapa whelks and their ecological impacts on local fauna, trophic networks, and shallow water (tidal) habitats through the development of an integrated public education program using existing rapa whelk instructional booklets and CD-ROM as texts for training programs and establish the "Rapa Resources" website.

Results: The rapa whelk booklets, *The Shell Detective* and *Rapa River Watch*, developed with the CBRF grant as well as the Rapa Resources website have established an ongoing VORTEX (Virginia's Oyster Reef Teaching Experience) program. The VORTEX program uses workshops and curriculum materials such as the rapa whelk CD and the rapa whelk videos to provide background information and teaching resources describing oyster reef communities, as well as other mollusk communities in the Bay for Virginia science educators.

Amount granted: \$20,000.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7302

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**Alliance for the Chesapeake Bay (RiverTrends Program)**  
**Project #: 005-086**

Plan: The Alliance seeks funding for their "RiverTrends" program which is to provide environmental education to increase public awareness of the Bay and the collection of water quality data by citizen volunteers within the Bay.

Results: Funding from CBRF supported the Alliance for the Chesapeake Bay volunteer water quality monitors in the Virginia portion of the Chesapeake Bay watershed, providing training, recertification, and representation at numerous public events and meetings under its new program "RiverTrends." A total of 31 monitors were recertified, representing five watershed organizations. Alliance certified monitors provide data from 49 active monitoring sites. Funds from the grant were also used to develop a Train-the-Trainer program so that Alliance certified monitors will be able to better respond to local needs for training and recertification while maintaining the high quality of data acquisition that is required for DEQ assessment reporting.

Amount granted:       \$28,000.00

530 E. Main St., Suite 501  
Richmond, VA 23219  
775-0951

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**Friends of the Rappahannock**  
**Project #: 005-090**

Plan: FOR proposes to provide for environmental education that will increase public awareness and knowledge about the Rappahannock and the Bay, collect water quality data in the Central Rappahannock region by citizen volunteers, and establish a framework for a long-term water quality management program.

Results: The fund helped the Friends of the Rappahannock provide environmental education to increase public awareness and knowledge about the Rappahannock River and the Chesapeake Bay and the water quality issues that affect these watershed ecosystems. Nine volunteers and three staff monitors were trained and became certified monitors and collected high quality and scientifically useful water quality data from five different sites distributed throughout the Central Rappahannock Basin. Two (FOR) of the staff members successfully completed the Train-the-Trainer process for the Alliance for the Chesapeake Bay's (ACB) *RiverTrends* water quality monitoring program and have certified trainers allowing for future training for volunteers independently. FOR staff established a monitoring network along the Rappahannock and created the framework for future water quality monitoring and plans for expanding the program.

Amount granted:       \$12,000.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

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**Coastal Virginia Wildlife Observatory**  
**Project #: 006-005**

Plan: As in their 03-05 grant applications, CVWO proposes to increase awareness concerning the Bay by providing printed materials to the public and schools regarding the need to preserve coastal habitats for migratory birds and Monarch butterflies. New for this year, they also seek funding for the purchase of blank DVDs so they can produce an educational DVD to be distributed free of charge to schools describing how bird research is conducted.

Results: The Observatory produced educational materials about the value of the Chesapeake Bay habitats through its work of songbird banding, hawk banding, a hawk watch, and other related surveys, including a Monarch butterfly study. Work was conducted primarily at Kiptopeke State Park, First Landing State Park, the Eastern Shore of Virginia National Wildlife Refuge, and in the Williamsburg area. Materials included comprehensive Field Research Reports for 2005 and 2006, Kiptopeke Hawkwatch 30 year summary brochure, and DVDs and their cases for the educational video, "Kiptopeke: A Story of Bird Research," for distribution to schools.

Amount granted: \$2,300.00

P.O. Box 1225  
Virginia Beach, VA 23451  
757-259-3123

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**Science Museum of Virginia Foundation**  
**Project #: 006-011**

Plan: SMV proposes for their Mini-School of Marine Science to serve adults, teachers, and students who want to gain a better understanding of fundamentals in marine and estuarine biology, marine ecosystem science, pollution, and resource management. They seek funding for personnel, brochures, a banner and poster, speakers, and four receptions.

Results: Funding from the grant established the *Mini-School of Marine Science* lecture series. The focus of the series was "Global Warming in Chesapeake Bay." Speakers from VIMS and the National Oceanic and Atmospheric Administration's Chesapeake Bay's Office in Virginia explored the causes and potential consequences of global change in the Chesapeake Bay.

Amount granted: \$8,540.00

P.O. Box 11624  
Richmond, VA 23230-0624  
804-864-1560

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**Citizens for a Better Eastern Shore**  
**Project #: 006-015**

Plan: CBES seeks funding to design, publish, and distribute a brochure on "What homeowners should know about land use management in Northampton County, Va."

Results: The grant fund was spent on design, printing, and postage of *Land Use Management and Chesapeake Bay water quality protection in Northampton County: Understanding Makes Better Neighbors*. The brochure highlights how any land based activity in Northampton County will impact the Chesapeake Bay and the local tidal creeks.

Amount granted: \$3,975.00

P.O. Box 882  
5248 Willow Oak Rd.  
Eastville, VA 23347  
757-678-7157

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**Northern Virginia Soil and Water Conservation District**  
**Project #: 006-016**

Plan: NVSWCD seeks funding to purchase for their Pohick Creek watershed an initial supply of preprinted permanent storm drain markers and print educational fliers that would be distributed to households in conjunction with storm drain marking. This would not replace the district's current storm drain stenciling program.

Results: The fund awarded the District monies for storm drain labeling and education in 18 communities and at three school sites within the Pohick Creek watershed in Fairfax County. The initiative involved 232 volunteers participating in 13 grassroots projects and educated 11,578 Fairfax County citizens about stormwater runoff and water pollution prevention. A post-project survey conducted in four of the 18 participating communities indicated that storm drain labeling is an effective grassroots stewardship and education project. The Pohick Creek storm drain labeling initiative increased citizen knowledge about local and regional water resources and the impact of everyday behaviors on water quality in the Chesapeake Bay.

Amount granted: \$4,629.00

12055 Government Ctr. Pkwy.  
Suite 905  
Fairfax, VA 22035  
703-324-1423

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**Northumberland Association for Progressive Stewardship  
Project #: 006-018**

Plan: As in their 2004 grant application, NAPS seeks funding to educate citizens about the importance of marshes and encourage them to "garden" their marshes by removing debris and pruning back vegetation, along with planting a variety of marsh plants and controlling *Phragmites australis*.

Results: The project was specifically aimed at educating citizens about the importance of marsh grass ecosystems and implementing that education by actually using marsh grass for erosion control, where feasible, and on replacing monocultures of *Phragmites australis* with a diverse assemblage of more desirable marsh plants. One hundred twenty flats of marsh grass containing 50 plants each were planted on 21 properties, mostly in Northumberland County. In the Fall, 86 sites were visited and 68 were sprayed with the herbicide Rodeo in an ongoing program to replace *Phragmites australis* with more desirable marsh plants.

Amount granted: \$3,000.00

P.O. 567  
Heathsville, VA 22473  
804-453-6605

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**Henricopolis Soil and Water Conservation District - Va. Cooperative Extension  
(Smart Lawn & BayScaping)  
Project #: 006-019**

Plan: As in their 2003 and 2005 grant applications, Henricopolis SWCD, along with the Va. Cooperative Extension, proposes to hold several seminars throughout Henrico County that will emphasize "Smart Lawn" and "BayScaping" and the proper nutrient management of urban landscapes. Participants will be awarded a voucher which will cover the cost of a soil test of their property. They seek funds for 200 soil test vouchers, printing costs layout, and design.

Results: The grant funding was used to continue a soil testing program in Henrico County. Henrico citizens can request from the Henricopolis District a coupon to cover the costs of having their soil tested. As a result of this program, potential nutrient runoff has been reduced from the lawns of participating customers and soil testing is a valuable tool in reducing nonpoint source nutrient pollution.

Amount granted: \$1,450.00

8600 Dixon Powers Dr.  
Richmond, VA 23228  
804-501-5175



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**Middle Peninsula Land Trust**  
**Project #: 006-036**

Plan: Middle Peninsula Land Trust proposes to expand landowner education on the "comprehensive" conservation management practices developed as a result of their 2005 grant award. This grant would allow an expanded education process building upon the two education seminars that will be carried out within the current grant and will demonstrate the application of the process in four differing locations in the Middle Peninsula.

Results: The fund is providing the Land Trust with the means to "field test" the guidance manual (A Landowner's Guide to Integrated Conservation Land Management) with four landowners who own and manage diverse combinations and acreages at multiple locations across the region. The resulting plans will be published as addendums to the guidance manual and posted for broad dissemination on the Middle Peninsula Land Trust website and made available to regional and local governments.

Amount granted: \$8,000.00

P.O. Box 585  
Mathews, VA 23109  
804-758-0640

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**County of Gloucester**  
**Department of Codes Compliance**  
**Project #: 006-037**

Plan: As in their 2003 and 2005 grant applications, Gloucester County proposes to support the expanding of public awareness about their creek and river cleanups, which will take place along the Sarah Creek and Severn and Perrin Rivers. They seek funds for advertising, maps, trash supplies, event materials, and canoe rentals.

Results: Gloucester County's Annual Creek Clean-ups occur in conjunction with an annual Bay-wide initiative the first weekend of each June. The combined accumulation of debris from the Perrin River, Sarah Creek, and Severn River was an estimated 9,725 pounds with 215 volunteers participating. Trash was removed from 50 miles of creeks, marsh, and adjacent areas. Conservation and stewardship have resulted in improvement of the quality of the Chesapeake Bay.

Amount granted: \$1,900.00

P.O. Box 329  
Gloucester, VA 23061  
804-693-1217 or 1382

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**Chesapeake Bay Foundation**  
**Project #: 006-045**

Plan: CBF proposes to educate Va. citizens through an educational campaign that raises the awareness of local water quality problems, teach participants how to identify and report algal blooms and fish kills in Va.'s waters, and inform them of the reasons behind these occurrences and solutions to the water quality problems.

Results: Through the Chesapeake Bay Foundation's *Virginia Water Watcher Program*, recreational boaters and fishermen, watermen, waterfront homeowners, environmentalists, and tourists throughout Virginia were targeted to participate in informal training sessions on the cause and effects of algae blooms and fish kill, as well as ways to identify and report them via a web-based system. CBF hosted 12 informational training sessions to educate approximately 350 citizens. The purpose of *Virginia Water Watcher Program* is to help compile a more complete record of water quality problems in Virginia's rivers and the Chesapeake Bay.

Amount granted:       \$18,462.00

Philip Merrill Environmental Ctr.  
6 Herndon Ave.  
Annapolis, MD 21403  
443-482-2112

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**Alliance for the Chesapeake Bay  
(Builders for the Bay)  
Project #: 006-048**

Plan: As in their 2003 grant application, the Alliance proposes to continue with their "Builders for the Bay" project in Fairfax County. In this grant, they would like to create a Better Site Design County Committee and hold a training session for same on how to change local development rules to reduce impervious cover, protect green space, and treat stormwater quality. The Alliance would also draft a Code and Ordinance Worksheet and an analysis of Fairfax County's codes and ordinances that relate to site design, conduct a final meeting, and develop a strategy for code reform.

Results: The Green Ribbon Committee was interested in the experiences of other Virginia jurisdictions in modifying local development regulations and programs to support Better Site Design and Smart Site principles. In particular, the Committee wanted to explore incentives and regulatory options that would promote infill and reuse of developed areas and improve the condition of local water quality. Though not exhaustive, the findings contained herein provide examples of where innovative efforts have been launched and some lessons that have been learned.

Amount granted:       \$12,000.00

P.O. Box 1981  
Richmond, VA 23218  
775-0951

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**Alliance for the Chesapeake Bay  
(James River Restoration Summit)  
Project #: 006-049**

Plan: The Alliance proposes to increase the knowledge of the significance of the tidal freshwater region of the James River through a "James River Restoration Summit." Also, as a continuation of their 2005 grant application, they will implement "RiverTrends" Train-the-Trainer program for participating watershed organizations and perform some core basic functions of the program.

Results: With funding from this grant, the Alliance has continued its *RiverTrends* volunteer water quality monitoring program in Virginia's portion of the Chesapeake Bay watershed. The Alliance has sustained its traditional technical and material support for *RiverTrends* volunteer monitors of partnering watershed organizations. The Alliance has built the capacity of key staff and volunteers within these partnering watershed organizations through development and implementation of its Train-the-Trainer program. Through this program, which is now part of a DEQ-approved Quality Assurance Project Plan, the Alliance has trained six local coordinators to be Certified Trainers of the *RiverTrends* program and plans to certify one to two others in the future.

Amount granted: \$14,500.00

530 E. Main St., Suite 501  
Richmond, VA 23219  
775-0951

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**Lynnhaven River 2007, Inc.  
Project #: 006-050**

Plan: LR 2007 proposes for their "S.O.S. for the Lynnhaven" project to work with six area restaurants during the 2006 tourist season to collect restaurant oyster shells and build public awareness about the need for oyster reef restoration in the Lynnhaven River.

Results: With the fund, Lynnhaven River NOW launched *S.O.S. (Save Oyster Shell) for the Lynnhaven*, a shell reclamation project that salvaged oyster and clam shells from area restaurants and built public awareness about the need for oyster reef restoration in the Lynnhaven River. One thousand bushels of oyster and clam shells were collected from eight Virginia Beach restaurants and two public sites during a 10-week pilot project. The shells were collected and cured and will be used in the construction of a new oyster reef in the Lynnhaven River.

Amount granted: \$15,000.00

P.O. Box 584  
Virginia Beach, VA 23451  
757-406-0106

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**Central Virginia Waste Management Authority**  
**Project #: 006-062**

Plan: CVWMA proposes a water quality and household hazardous waste disposal public awareness campaign called "Please Don't Feed the Storm Drain" to target more than one million citizens living in the Metropolitan Richmond and Tri-Cities area. They seek funding for a TV schedule and production, newspaper advertisements, and brochure holders for publications.

Results: The grant was used to air a public service announcement produced by Earth 911 encouraging residents to properly use and dispose of household chemicals. CVWMA provided additional outreach, including newsletter articles and website content, on available disposal sites in Central Virginia. The City of Richmond held a collection that collected four tractor trailers of paint and hazardous waste from nearly 400 city residents.

Amount granted: \$14,500.00

2100 W. Laburnum Ave., Suite 105  
Richmond, VA 23227  
804-359-8413

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**Loudoun Soil and Water Conservation District**  
**Project #: 006-068**

Plan: Loudoun SWCD proposes for their Arbor Day celebration an education program called "Scales and Tall Tales" to promote an understanding of the relationship between man, wildlife, and the habitats they share. The activities will include a hands-on learning with a variety of live wildlife species, a visit with nature, and a program featuring trees and their importance in Native American life.

Results: The District utilized grant funds to involve school students in tree planting activities to establish five acres of forested riparian buffer on tributaries of the Chesapeake Bay in Loudoun County and to create a forested area for three outdoor classrooms on school sites. The funds also provided wildlife exhibitions for two Arbor Day events, distribution of over 10,000 tree seedlings, and educational materials for teachers to help promote awareness of the importance of the value and benefit of trees.

Amount granted: \$5,500.00

30-H Catoctin Circle, SE  
Leesburg, VA 20175  
703-777-2075, Ext. 104

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**The Elizabeth River Project**  
**Project #: 006-071**

Plan: Elizabeth River proposes to convene a community-based team to review a 10-year progress and set new five-year goals for 2012, hold a public seminar to raise awareness of the State of the River, and increase public involvement in Elizabeth River restoration and conservation by energizing the community to implement the new 2012 goals.

Results: Two publications of the newsletter, *Mudflats*, were completed as a result of the fund. The newsletters were mailed to 6,800 readers and provided important updates on education and restoration activities and opportunities relating to the Elizabeth River. The newsletter reinforces efforts that are made through staff, exhibits, live interpretation, lectures, workshops, and resource materials to strengthen the message of the Elizabeth River Project's key goal of restoring the most polluted river on the Bay.

Amount granted: \$5,000.00

475 Water St., Suite 103A  
Portsmouth, VA 23704  
757-399-7487

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**Clean Virginia Waterways**  
**(Longwood University)**  
**Project #: 006-076**

Plan: CVW and VASWCD proposes to hold three "Train the Trainer" workshops in the Bay watershed on the benefits of rain barrels and reducing polluted runoff for homeowners in order to transfer to statewide nonprofit organizations the tools and knowledge needed for them to offer "Rain Barrel and Stormwater Tips for Homeowners" workshops.

Results: The Longwood University program Clean Virginia Waterways created "How to Make a Rain Barrel Workshop" with assistance from the Piedmont Soil and Water Conservation District. The workshops were very successful, resulting in dozens of groups that are now trained and offering their own workshops throughout Virginia. As a result of the fund, the "Train the Trainer" workshops have distributed at least 1,200 rain barrels through additional workshops and several groups have plans underway to offer workshops.

Amount granted: \$6,500.00

Dept. of Natural Sciences  
201 High St.  
Farmville, VA 23909  
434-395-2602

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**Hoffler Creek Wildlife Foundation**  
**Project #: 006-082**

Plan: Hoffler Creek proposes to implement "Family Ties," a program designed to explore relationships of plants, animals, and people living in the Bay watershed. Their goal is to provide information and interpretation to help people understand the connections to air, water, and soil and to adopt behaviors that positively impact environmental quality.

Results: The *Family Ties* project provided new facilities and new opportunities for families to acquire scientific information, experience firsthand observation, and participate in activities that contribute to the conservation and restoration of the natural resources of the Chesapeake Bay watershed. Work products included a solar-powered laboratory, an outdoor display case for water quality data, interpretative signage, a boat rack, and special events for families. The facilities and programs produced by this grant will endure as a source of information and interpretation to those seeking to understand their connections to air, water, and soil and will encourage behaviors that positively impact the health of the Chesapeake Bay.

Amount granted: \$12,000.00

4510 Twin Pines Rd.  
Portsmouth, VA 23703  
757-483-6838

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**Northumberland Association for Progressive Stewardship**  
**Project #: 007-003**

Plan: As in their 2004 and 2006 grant applications, NAPS seeks funding to educate citizens about the importance of marshes and encourage them to "garden" their marshes by removing debris and pruning back vegetation, along with planting a variety of marsh plants and controlling *Phragmites australis*.

Results: One hundred flats of marsh grass containing 50 plants each were planted on 30 properties, mostly in Northumberland County. Ninety-eight sites were sprayed with herbicide in an ongoing program to replace *Phragmites australis* with more desirable marsh plants. Citizen education regarding marsh stewardship is a major ongoing goal of this project and since *Phragmites* control and grass planting, 68 sites have received grass in the spring and 117 sites have been sprayed for *Phragmites* in the fall.

Amount granted: \$2,900.00

P.O. 567  
Heathsville, VA 22473  
804-453-6605

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**Middle Peninsula Chesapeake Bay Public Access Authority**  
**Project #: 007-007**

Plan: MPCBPAA proposes for their Dragon Run/Chesapeake Bay Drainage Trail Demarcation Project to oversee the application of reassurance markers, also known as blazes, to trees along all trails of the Browne Tract. The Browne Tract is the region's only multi-use public access facility for school children and the public to explore and gain knowledge of the Dragon Run watershed and the Bay drainage system. They seek funds for contractual services and 20 gallons of Nelson Boundary paints.

Results: MPCBPAA utilized grant funding to permanently demarcate the trail network of the Browne Tract, the region's first multi-use public access facility. Trail improvements were accomplished to provide the general public, especially school children, with the opportunity to experience the Dragon Run watershed firsthand and gain an understanding of the surrounding ecosystem and its relationship to the Chesapeake Bay.

Amount granted: \$500.00

P.O. Box 286  
Saluda, VA 23149  
804-758-2311

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**Coastal Virginia Wildlife Observatory**  
**Project #: 007-008**

Plan: As in their 03-06 grant applications, CVWO proposes to increase awareness concerning the Bay by providing printed materials to the public and schools regarding the need to preserve coastal habitats for migratory birds and Monarch butterflies.

Results: The Observatory produced educational materials about the importance of the Chesapeake Bay area for wildlife, which included brochures for butterfly research and raptor research, a handout for the 45th anniversary of the Kiptopeke Songbird Station, comprehensive 28-page Field Research Report, and similar Field Research Report for 2007. Research and public education work is primarily conducted at Kiptopeke State Park, First Landing State Park, and Eastern Shore of Virginia National Wildlife Refuge.

Amount granted: \$2,300.00

P.O. Box 1225  
Virginia Beach, VA 23451  
757-259-3123



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**Thomas Jefferson Soil and Water Conservation District**  
**Project #: 007-010**

Plan: Thomas Jefferson SWCD proposes to create an educational tour of the Rivanna River watershed to be made available in interactive form on the Internet and a CD-ROM PowerPoint presentation. Through their workshops, they will assist in the recruiting and training of citizens on the prevention of water pollution and the protection of water quality. They will also educate the public about issues affecting the local water quality and the health of the Bay.

Results: The project resulted in the creation of a PowerPoint slide show consisting of 78 slides with photographs and text documenting the geographical layout and land use within the Rivanna River watershed located in Greene, Albemarle, Louisa, and Fluvanna Counties. Numerous aerial photographs highlight the beauty of the watershed as well as the challenges that it faces due to rapid development. Teaching points include the significance of watersheds, the geography of the Rivanna River watershed, the types of pollution that threaten water quality in the Chesapeake Bay watershed, how land use is related to water pollution, and various approaches to reducing the threat of water pollution. The presentation has been well received by educators, volunteers in conservation organizations, and ordinary citizens.

Amount granted:       \$2,655.00

2134 Berkmar Dr.  
Charlottesville, VA 22901  
434-975-0224

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**Virginia Living Museum**  
**Project #: 007-034**

Plan: As in their 02-04 grant applications, the Museum wishes to continue to provide Discovery Boxes to inner city and rural schools by seeking funds to provide a one-week free rental of the boxes, which would include repairs and printing and mailing of the promotional materials. New for 2007, the Museum will conduct a special event "Teacher Day about the Bay" to encourage teachers to get excited about teaching the Bay story and offer them additional materials to aid in their teaching.

Results: The Museum continued to provide Discovery Boxes to preschool classrooms in Virginia from grant funding. During the school year, the Museum distributed 22 grants funded *Under the Bay* Discovery Boxes to preschool classrooms throughout Virginia. Each teacher who received a grant-funded Discovery Box also received an age-appropriate curriculum manipulative activity to keep in their classroom. Over 1,760 Pre-K students benefited directly from this program during the school year, an average of eight students per Discovery Box.

Amount granted: \$5,825.00

524 J. Clyde Morris Blvd.  
Newport News, VA 23601  
757-595-1900, Ext. 257

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**Fairfax County Park Authority**  
**Project #: 007-041**

Plan: The Authority proposes a "Watershed Trail Sign Education" project to educate the public about the value stream valley parks provide in our past, present, and future. One of the signs, "Water Connection," focuses on runoff and preventing pollution from entering their regions' waterways and the other sign, "Ribbons of Green Protect Our Streams," focuses on the importance of stream buffer vegetation and incorporates design elements that will appeal to a range of park visitors. They seek funding for 25 signs.

Results: This project expanded our network of interpretive signage to eight watersheds in Fairfax County. The additional signs work to educate the public about the value of healthy stream valley parks and riparian buffers. The 18 signs are part of an overall effort to increase appreciation and valuation of the water resources in the Chesapeake Bay region.

Amount granted: \$9,000.00

12055 Government Ctr. Pkwy.  
Suite 927  
Fairfax, VA 22035-1118  
703-324-8513

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**Friends of Reston for Community Projects, Inc.**  
**Project #: 007-064**

Plan: Reston proposes to develop a self-guided Stormwater Trail in Reston that will serve as a guide to help community associations, residents, and youth to better understand stormwater management and will encourage individuals to implement at least one of the demonstrated BMPs to protect water quality from nonpoint source pollution and buffer storm runoff.

Results: The goal was to have at least five stations along the Stormwater Trail that would have a Best Management Practice (BMP) or a Low Impact Development technique (LID) demonstration featured with an educational sign and brochure. The BMP's and LID techniques included an infiltration parking area, a rain garden, a drainage swale, a native plant garden, and a rain barrel and/or cistern. The major expenses were in the rain garden and infiltration sidewalk. The grant funded the materials to deliver the water to the garden including gutters, piping, and trenching; the gravel for the under drain; and materials needed to plant and maintain the garden.

Amount granted: \$8,500.00

1930 Isaac Newton Square  
Reston, VA 20190  
703-435-6560

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**Rivanna Conservation Society**  
**Project #: 007-066**

Plan: RCS proposes to support a study of land use/stream health relationships to be conducted by the StreamWatch partnership and to independently organize a symposium and produce materials to educate the community about the link between land use and stream health. They seek funding for salaries, transportation, field and laboratory equipment, distribution of the StreamWatch 2007 report, and the development, production, and hosting of a "State of the Basin" educational symposium with a display exhibit and fact sheets.

Results: The grant awarded the Rivanna Conservation Society to support (1) a study of land use/stream health relationships conducted by StreamWatch, and (2) to support educational efforts by Rivanna Conservation Society to inform the community about the effects of land use on stream conditions. Since less than 40 percent of the request was funded, the report affirms that all funds associated with this grant have been spent.

Amount granted: \$10,000.00

P.O. Box 1501  
Charlottesville, VA 22902  
434-923-8642

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**City of Norfolk**  
**Bureau of Environmental Services**  
**Project #: 007-070**

Plan: BES seeks funding for the initial printing of 500 bound copies of their "Native Plants for Wetland Restoration and Enhancement: A Source Guide." The Guide was prepared to provide landowners and landscape designers with the information they need to research, design, and properly add native wetlands plants to existing wetland areas.

Results: The grant fund provided for the distribution of the booklet entitled: *Native Plants for Wetland Restoration and Enhancement: A Source Guide*. Approximately 500 booklets were prepared by Norfolk's Division of Environmental Services to provide citizens with information that could be used for dune restoration or to enhance dune plant and ecological diversity.

Amount granted: \$500.00

508 City Hall Building  
810 Union St.  
Norfolk, VA 23510  
757-621-2564

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**County of Albemarle, Virginia**  
**Project #: 007-078**

Plan: The County of Albemarle, on behalf of the Rivanna Regional Stormwater Partnership, will be carrying out a campaign to educate employees of local automotive repair and maintenance shops about Best Management Practices they can adopt to minimize pollution of stormwater in the Rivanna River watershed. During the second half of the grant year, the partnership will develop a second education campaign targeting the restaurant industry, incorporating lessons learned from the first.

Results: The Rivanna Regional Stormwater Education Partnership is an alliance of Charlottesville-area entities holding Phase II NPDES permits with the Virginia Department of Conservation and Recreation, which through a collaborative effort serves to educate citizens and businesses regarding stormwater pollution prevention. The partnership recently planned and implemented an educational campaign focused on two prevalent business groups, the automobile repair industry and restaurants. About 370 businesses were directly contacted and informed and the partnership was able to use this campaign as a platform for reaching a wider audience.

Amount granted: \$2,294.00

401 McIntire Rd.  
Charlottesville, VA 22902  
434-296-5832, Ext. 3410

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**Va. Tech - Department of Crop and Soil Environmental Sciences  
Project #: 007-083**

Plan: The College proposes to develop information on nitrate leaching on farms in New Kent and King William Counties and carbon and nitrogen sequestration in long-term no-till systems in New Kent, Charles City, King William, Henrico, and James City Counties and disseminate this information to growers, conservation specialists, legislators, and policy makers in order to achieve improved soil and water quality.

Results: The overall goals of the proposed activities are to develop information on nitrate leaching and C and N sequestration in long-term no-till systems and to disseminate this information to growers, conservation specialists, legislators, and policy makers in order to achieve improved soil and water quality, which has been accomplished through this grant.

Amount granted: \$8,500.00

416 Smyth Hall  
Blacksburg, VA 24061  
540-231-9777

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**Lord Fairfax Soil and Water Conservation District/Holman's Creek Citizen's Committee  
Project #: 007-094**

Plan: LFSWCD, in order to implement the Holman's Creek TMDL plan, seeks funding for water testing to develop information for use in guiding the implementation of the TMDL plan and informing residents, farm owners, and operators about pollution in the area of the watershed where they reside and operate.

Results: The fund provided money for collection, streamside monitoring, and analysis of water samples from the Holman's Creek watershed for the continuation of the development of baseline data to determine nutrient loads. All samples were collected and analyzed in accordance with the Friends of the Shenandoah River (FOSR) Quality Assurance Project Plan, which has been approved by the Virginia Department of Conservation and Recreation and the U.S. Environmental Protection Agency.

Amount granted: \$7,571.00

130 Carriebrooke Dr.  
Stephens City, VA 22655  
540-740-2919

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**Middle Peninsula Land Trust**  
**Project #: 007-096**

Plan: Middle Peninsula Land Trust proposes to further enhance the Resource Conservation District ordinance with the development, introduction, and incorporation of four to-be-developed bonus density ordinance elements crafted to enable local governments to encourage and/or stimulate related jurisdictional priorities. They will also conduct six training workshops for Middle Peninsula local government officials and staff on the ins and outs of the model Resource Conservation District ordinance and on their bonus density ordinance elements.

Results: The Trust, with financial assistance from the CBRF and private contributors, conducted four workshops for public officials and key community leaders on preservation of open-space lands through conservation subdivisions and conservation easements. The workshops focused on how the counties can utilize conservation techniques such as conservation easements and conservation subdivision regulations to preserve farmland, forest lands, and open space. The four workshops were held in King and Queen County, Middlesex County, and Mathews County with 25 and 50 people attending each session for a total of 135 attendees. As a result of the workshops, King and Queen and Middlesex Counties took action to amend their land use regulations to preserve key natural areas within their localities.

Amount granted:       \$5,000.00

P.O. Box 585  
Mathews, VA 23109  
804-758-0640

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**Northern Neck Soil and Water Conservation District**  
**Project #: 008-001**

Plan: Northern SWCD seeks funding to purchase an Enviroscope Watershed model (nonpoint source) with riparian buffer and groundwater kits, a carrying case on wheels, and a watershed curriculum guide to demonstrate what constitutes a watershed, types of nonpoint source pollution, and how to prevent such pollution.

Results: The purchase of an Enviroscope model has shown its exceptional suitability as a learning tool for individuals of all ages with different learning styles. The experience has strengthened and broadened their working relationships with other partnering organizations within the Northern Neck and with the broader community. The Enviroscope model has provided as many relevant conservation activities and resources as possible to area educators, assisted with enhancing student achievement in Standards of Learning, and caused students to want to become better stewards of the environment.

Amount granted:       \$1,512.50

P.O. Box 220  
5559 Richmond Rd.  
Warsaw, VA 22572  
804-333-3525, Ext. 113

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**Virginia Eastern Shore Land Trust - Eastern Shore Soil and Water Conservation District  
Project #: 008-008**

Plan: As in their 2007 grant application, the VES and the Eastern Shore SWCD seek funding to educate the Northampton County working farmers about federal, state, and local incentives for permanent land protection. Their goal is to recruit at least five farm landowners within the Bay who are willing to pursue permanent land protection for their farms.

Results: With the help of the fund, VES Land Trust and ESSWCD have performed outreach to Northampton County working farmers in an effort to educate them on federal, state, and local incentives for permanent land protection. The VES Land Trust and ESSWCD currently co-hold 15 donated conservation easements encompassing a total of 3,117 acres, six of which were donated in 2008. Nearly 1,300 acres of this protected land lies within the Chesapeake Bay Preservation Area in Northampton and Accomack Counties, containing over six miles of shoreline and 54 acres of tidal marsh. The easements specifically protect Chesapeake Bay water quality and wildlife habitat by requiring Best Management Practices for agricultural and forested land uses, vegetative riparian buffers, and construction setbacks.

Amount granted: \$10,000.00

P.O. Box 1114  
Exmore, VA 23350  
757-442-5885



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**Friends of Chesterfield's Riverfront  
Project #: 008-013**

Plan: Friends proposes to create a "Stormwater Academy" seminar series comprised of four modules for citizens and educators, identify nontraditional venues and methods of dissemination for the Academy, identify and implement BMPs at each of the Academy locations, and educate citizens on nonpoint source pollution control measures in an effort to instill behavioral change.

Results: The project aimed to provide citizens with an understanding of stormwater runoff and nonpoint source pollution, disseminate information on "citizen friendly" Best Management Practices, implement demonstrational "citizen friendly" Best Management Practices, and teach citizens about the connection between Chesterfield County and the Chesapeake Bay. Friends partnered with Chesterfield County Environmental Engineering to implement the "Teacher Stormwater Academy." Of the 18 teachers that attended, 15 teachers made rain barrels to use at their homes and each school represented made a rain barrel for use on their school grounds. The teachers learned watershed sizes and names, the difference between point source and nonpoint source pollution, how to help at home and around the school to have a cleaner watershed, how much land area is included in the Chesapeake Bay watershed, and how to make a rain barrel.

Amount granted: \$8,110.00

P.O. Box 2158  
Chesterfield, VA 23832  
804-796-1703

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**Friends of the Rappahannock  
Project #: 008-014**

Plan: As in their 2005 grant application, FOR proposes to continue to provide for environmental education that will increase public awareness and knowledge about the Rappahannock and the Bay, collect water quality data in the Central Rappahannock region by citizen volunteers, and build upon their current framework for a long-term water quality management program.

Results: This is a continuation of the monitoring of the Rappahannock River as originally proposed in the 2005-090 grant.

Amount granted: \$5,000.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

**Prince William Soil and Water Conservation District**  
**Project #: 008-017**

Plan: Prince William SWCD proposes to expand their "Family Conservation Night," which promotes families to participate in outdoor activities together. They seek funding to add more conservation stations and activities, guest speakers, a location to accommodate a large crowd and have plenty of parking, many supplies, goodie bags, and a couple of latrines if needed.

Results: There were 18 families of 34 adults and 40 children that attended Family Nature Adventure, conservation stations that represented a variety of natural activities. Families participated in several hands-on activities such as looking through a telescope, making fish prints, and searching for birds. Expenses for the grant were speaker fees, facility use, supplies, advertising, postcard mailings, and miscellaneous.

Amount granted: \$1,850.00

13061 Fitzwater Dr.  
Nokesville, VA 20181  
703-594-3621

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**Coastal Virginia Wildlife Observatory**  
**Project #; 008-026**

Plan: As in their 03-07 grant applications, CVWO proposes to continue to increase awareness concerning the Bay by providing printed materials to the public and schools regarding the need to preserve coastal habitats for migratory birds and Monarch butterflies.

Results: The Observatory produced educational materials about the importance of the Chesapeake Bay area wildlife, which included brochures for songbird research, a new updated one for raptor research to include the Northern Saw-whet Owl, and a comprehensive 36-page Field Research Report for 2007 and 2008. New this year was the production of three life-size hawk models for educational use at the Kiptopeke hawk watch.

Amount granted: \$3,300.00

P.O. Box 1225  
Virginia Beach, VA 23451  
757-259-3123

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**Northern Virginia Soil and Water Conservation District**  
**Project #: 008-042**

Plan: With several letters of support, NVSWCD and its agency partners seek funding to install a residential low-impact development demonstration project and conduct low-impact development education for residents in the Falls Hill and Poplar Heights communities.

Results: The grant resulted in construction of a residential low impact development demonstration project in the Falls Hill community. Over 100 individuals were directly educated about residential low impact development theory and practices through this project and at least 23 individuals modified landscaping or drainage at their home in order to protect local water resources and the Chesapeake Bay.

Amount granted: \$12,000.00

12055 Government Ctr. Pkwy.  
Suite 905  
Fairfax, VA 22035  
703-324-1423

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**Clean Virginia Waterways**  
**Longwood University**  
**Project #: 008-048**

Plan: Due to the great success of their three "Train the Trainer" workshops funded in 2006, CVW proposes to become a statewide distributor of rain barrels for any organization or local government that wishes to offer a "How to Make a Rain Barrel" workshop. CVW will also facilitate the desire of citizens across the state who wish to install rain barrels on their homes by accommodating sales of barrels to citizens.

Results: The grant enabled CVW to become a sustainable statewide distributor of barrels and that this program would be self-supporting. The number of rain barrel workshops throughout Virginia has increased. Approximately 3,850 barrels were distributed in Virginia from 2008-2009 for the collection of rainwater.

Amount granted: \$16,000.00

201 High St.  
Farmville, VA 23909  
434-395-2602

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**Chesapeake Experience**  
**Project #: 008-049**

Plan: For their "Experience the Chesapeake Bay 2008: Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem" course and with several letters of support, Chesapeake Experience requests funding to provide a week-long professional development training opportunity for 15 teachers (grades 4-10) in the Hampton Roads region with an emphasis on the Bay as an ecosystem, classroom integration, development of useful hands-on activities, and leadership in designing and implementing meaningful field experiences that can be taken back to home schools and shared throughout the educational community.

Results: Twenty-four teachers from all corners of Hampton Roads participated in "Experience the Bay 2008: Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem." The teachers were able to apply concepts, develop activities for classroom integration, experience meaningful field trips, and collaborate with other educators in the Hampton Roads region, all of which will benefit their students in the future.

Amount granted:       \$3,735.00

103 Industry Dr.  
Yorktown, VA 23693  
757-890-0502

**Virginia Institute of Marine Science  
Sea Grant Marine Advisory Program  
Project #: 008-055**

Plan: Continuing with their 2001, 2003, and 2004 grant applications to further educate boaters, the Sea Grant Marine Advisory Program at VIMS proposes for the Va. Clean Marina Program to produce a CD that highlights the potential pollution stemming from boaters and marinas/boatyards and the means to eliminate or reduce those problems. The video will educate viewers on the types of pollutants and what damages they cause, the BMPs they can use to reduce pollutants or damaging behavior, and "how to" information on the procedures for using some of the BMPs.

Results: Bling my Boat (BMB) is an educational DVD geared towards the recreational boater. The goal of BMB is to encourage boaters to adopt Best Management Practices that minimize the boater's impact on the marine environment and to impress upon boaters that even small changes in behavior can be beneficial to the environment. The DVD highlights Best Management Practices that boaters can follow to reduce pollution and damaging behavior. The benefits of BMB are measured in the number of boaters that are reached and the positive impact the DVD had on their stewardship of the Chesapeake Bay.

Amount granted:       \$13,285.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7768

**Alliance for the Chesapeake Bay  
Project #: 008-058**

Plan: The Alliance seeks funding to demonstrate effective stormwater controls by installing a publicly accessible BayScapes demonstration site, conduct three BayScapes workshops for specific community stakeholders, and provide BayScapes and Bay educational outreach through publication materials and speaking events.

Results: The grant supported the development of a BayScapes garden at the Science Museum of Virginia (SMV), three community BayScapes demonstration workshops, print and distribute BayScapes educational materials, and presentations to community and stakeholder groups in the Bay watershed. The Alliance was also able to work with SMV staff to leverage these resources towards another grant the museum received. The National Fish and Wildlife Foundation granted the SMV \$700,000 to install other BayScapes and stormwater management practices.

Amount granted: \$26,000.00

530 E. Main St., Suite 200  
Richmond, VA 23219  
804-775-0951

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**Va. Tech - Virginia Cooperative Extension, King George County  
Project #: 008-067**

Plan: As in their 2002 grant application, Va. Tech's King George County Extension proposes to continue to educate the increasing residential population in the county about the role they play in helping to prevent nonpoint source pollution by their landscape management activities. This will be done by updating their mobile exhibit, present two educational seminars offered in collaboration with homeowners associations, and the dissemination of information to residents on lawn and landscape BMPs, which will also be posted on their website. They seek funding for promotional supplies (magnets), materials, and postage.

Results: The Lawn and Landscape Best Management project promoted practices to reduce urban nonpoint source pollution by local residents. Information was provided to homeowners through an exhibit, seminars, informational packets, and the Internet. The exhibit was displayed at one county event, three seminars were conducted, and information provided to at least 2,090 residents.

Amount granted: \$1,200.00

10087 Kings Hwy.  
King George, VA 22485  
540-775-3062

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**Hoffler Creek Wildlife Foundation**  
**Project #: 008-068**

Plan: To implement their "We're Working on It!" project, Hoffler Creek requests funds to purchase equipment, materials and supplies for volunteer projects, coordinate and schedule community volunteers and programmatic partners, and plan, publicize, and implement activities. Their objectives are to expand environmental educational opportunities, acquaint visitors with practices that protect water quality, and increase public support for the Bay's conservation and restoration.

Results: "We're Working On It" provided the public with opportunities to participate in a variety of activities related to conservation and restoration of natural resources in the Chesapeake Bay watershed. Community volunteers planted native plants, installed erosion control areas, presented programs, collected and interpreted water quality data, constructed a pervious walkway, and tended to approximately 6,000 seed oysters for release on restoration reefs. The facilities and programs produced by this grant will encourage people of all ages to adopt behaviors that positively impact the health of the Chesapeake Bay.

Amount granted: \$15,750.00

4510 Twin Pines Rd.  
Portsmouth, VA 23703  
757-483-6838

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**Rivanna Conservation Society**  
**Project #: 008-069**

Plan: As in their 2007 grant application and with several letters of support, RCS proposes to continue to support a study of land use/stream health relationships to be conducted by the StreamWatch partnership and to independently organize and conduct World Water Monitoring Day 2008 activities in the Rivanna watershed to educate the community about the link between land use and stream health.

Results: The fund supported a study of land use/stream health relationships conducted by StreamWatch and World Water Monitoring Day educational efforts by Rivanna Conservation Society.

Amount granted: \$24,445.00

P.O. Box 1501  
Charlottesville, VA 22902  
434-985-1802

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**Coastal Virginia Wildlife Observatory**  
**Project #: 009-010**

Plan: As in their 03-08 grant applications, CVWO proposes to continue to increase awareness concerning the Bay by providing printed materials to the public and schools regarding the need to preserve coastal habitats for migratory birds and Monarch butterflies.

Results: The Observatory again produced educational materials about the importance of the Chesapeake Bay area for wildlife, which included brochures, newsletter, and their comprehensive Annual Field Research Report with detailed program results. Research and public education work is primarily conducted at Kiptopeke State Park, First Landing State Park, and Eastern Shore of Virginia National Wildlife Refuge.

Amount granted: \$2,300.00

P.O. Box 1225  
Virginia Beach, VA 23451  
757-259-3123

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**Hoffler Creek Wildlife Foundation**  
**Project #: 009-011**

Plan: HCWF proposes for their "Moving Up, Reaching Out" project to heighten awareness and broaden the appeal of their foundation as a public resource for experiential learning about the Bay and its tributaries.

Results: "Moving Up, Reaching Out" allowed Hoffler Creek Wildlife Foundation to update promotional materials that informed the public about expanded operations and programming at Hoffler Creek. It also provided the public with new opportunities to participate in a variety of activities related to conservation and restoration of natural resources in the Chesapeake Bay watershed. Working with HCWF's staff, community volunteers planted native plants, installed erosion control areas, presented programs, collected and interpreted water quality data, and tended to approximately 8,000 seed oysters for release on restoration reefs.

Amount granted: \$12,000.00

4510 Twin Pines Rd.  
Portsmouth, VA 23703  
757-483-6838



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**Tidewater Oyster Gardeners Association**  
**Project #: 009-017**

Plan: Similar to their 2008 grant application, TOGO proposes to continue to expand their educational and outreach activities. They seek funding for a portion of the expenses for the Master Oyster Gardener Course, 2010, the publishing of a newsletter three times, participation in two oyster fairs, and a laptop computer with a portable projector and screen.

Results: The fund was used for newsletters, oyster fairs, Master Oyster Gardener Refresher Course, Annual Membership Meeting, annual Float Building Workshop, and other outreach activities such as Urbanna Oyster Festival, West Point Crab Carnival, Hampton Bay Days, Fort Monroe Arbor Day, and Gwynn's Island Festival.

Amount granted: \$3,550.00

8218 Hell Neck Rd.  
Gloucester, VA 23061-2528  
804-642-6764

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**Virginia Living Museum**  
**Project #: 009-020**

Plan: The Museum proposes to underwrite environmental programming at the Watson Amphitheater in the summer 2009. In order to preserve the environment and the Bay's fragile ecosystem, individuals must experience nature first hand. They seek funding for a summer educator, animal care, and a banner.

Results: The grant awarded to the Museum was to underwrite the cost of an environmental science educator to present Chesapeake Bay environmental science programs in the Museum's new outdoor amphitheater. During the period of the grant, the Museum hosted over 83,500 visitors. Four grant-funded environmental education programs were presented daily in the amphitheater for visitors of all ages. Informal random surveys taken after the amphitheater programs indicate that visitors gained a better understanding of Chesapeake Bay ecological concerns and were more motivated to take steps to preserve the Bay.

Amount granted: \$5,298.00

524 J. Clyde Morris Blvd.  
Newport News, VA 23601  
757-595-1900; Ext. 216

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**The Poquoson Historical and Cultural Museum Foundation**  
**Project #: 009-022**

Plan: Poquoson Museum seeks funding for the installation of an observation tower and interpretative signs at the Topping Creek marsh, which will help patrons identify faunas, wildlife, and waterfowl.

Results: The fund provided the money for the preparation of signage for their Marsh Walk. Various volunteer members worked many hours researching various educational topics to be placed on the signs. A committee was formed and the topic and placement of each sign was completed.

Amount granted: \$15,000.00

968 Poquoson Ave.  
Poquoson, VA 23662  
757-868-7630

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**Valley Conservation Council**  
**Project #: 009-024**

Plan: VCC proposes to update the book "Better Models for Development in the Shenandoah Valley," first published in 1999. In order to educate their 11-county region on the revised edition, they seek funding for promotional brochures, educational products, and presentations and workshops.

Results: The CBRF grant to the Valley Conservation Council (VCC) funded key elements of the *Better Models for Development in the Shenandoah Valley 2010* book update as well as supplementary materials that together will help VCC promote Bay-friendly land use policies and development practices throughout the 11-county Valley region. The grant also funded costs for the regional workshop "Planning Ahead for the Next Development Cycle." This event was the kick-off presentation of the "Conserve as you Grow" chapter of the book which uses the new green infrastructure and open space development design graphics that were developed.

Amount granted: \$8,000.00

17 Barristers Row  
Staunton, VA 24401  
540-886-3541

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**County of Gloucester Department of Codes Compliance**  
**Project #: 009-028**

Plan: As in their 2003, 2005, and 2006 grant applications, Gloucester County proposes to continue to support the expanding of public awareness about their creek and river cleanups, which will take place along the Sarah Creek and Severn, Perrin, and Ware Rivers. They seek funds for advertising, maps, and trash supplies.

Results: Gloucester County's Annual Creek Clean-up combined accumulation of debris from the Ware River, Perrin River, Sarah Creek, and the Severn River with an estimated 5,500 pounds and 150 volunteers participating.

Amount granted: \$1,495.00

P.O. Box 329  
Gloucester, VA 23061  
804-693-1217 or 1382

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**Chesapeake Experience**  
**Project #: 009-029**

Plan: For their "Experience the Chesapeake Bay 2009: Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem" course and with letters of support, Chesapeake Experience requests funding, as they did in their 2008 grant application, to provide a week-long professional development training opportunity for 12-15 teachers (grades 4-10) in the Hampton Roads region with an emphasis on the Bay as an ecosystem, classroom integration, development of useful hands-on activities, and leadership in designing and implementing meaningful field experiences that can be taken back to home schools and shared throughout the educational community.

Results: With generous funding from the CBRF, Chesapeake Experience has led five workshops for educators in the Hampton Roads region during the 2009 season. Twenty-two educators from Hampton Roads participated in daily kayak excursions, classroom activities, topic discussions lead by educators, and guest speakers who spoke on topics such as climate change, oyster restoration, and wetland identification.

Amount granted: \$4,365.00

103 Industry Dr.  
Yorktown, VA 23693  
757-890-0502

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**Potomac Conservancy, Inc.**  
**Project #: 009-039**

Plan: Potomac Conservancy proposes to protect the Potomac River through their "Growing Native" program, which educates citizens about the importance of trees to clean water, air and soil, and gives them the tools to become active stewards of the environment. They will also introduce the "No Parent Left Inside" campaign to encourage students and parents to give back to the environment and their community by collecting seeds with Growing Native.

Results: Growing Native has offered communities in the Potomac River watershed the opportunity to collect native shrub and hardwood seeds to help restore and protect waterways in the region. Nearly 7,000 pounds of native seeds were donated to Virginia's state nursery, which will help restore many acres of ailing streamside forests. Participation in the project grew to 2,960 volunteers as a result of both presentations made to school groups and increased media attention following the addition of a Communications Associate at the Conservancy.

Amount granted: \$9,000.00

8601 Georgia Ave., Suite 612  
Silver Spring, MD 20910  
301-608-1188; Ext. 211

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**Henricopolis Soil and Water Conservation District**  
**Project #: 009-048**

Plan: Henricopolis SWCD proposes to publish and distribute "Living in Your Watershed," which is a 20 page, full color, illustrated booklet about watersheds, pollution, and things we can do to improve water quality. They seek funds to purchase 10,000 copies for Henrico County.

Results: The "Living in Your Watershed" project provided an educational resource, primarily to elementary school students, to better understand the watershed concept and to help understand their relationship and indirect impact upon the health of the Chesapeake Bay. Booklets on the watershed have been distributed to 18 schools and nearly 1,500 students, as well as all new Master Gardener classes.

Amount granted: \$7,500.00

8600 Dixon Powers Dr.  
Richmond, VA 23228  
804-501-5176

**Tri-County/City Soil and Water Conservation District (Fairview Beach Workshops)  
Project #: 009-052**

Plan: Tri-County/City SWCD proposes through workshops to educate Fairview Beach homeowners/visitors, marina owners/staff, and business owners about water quality issues and factors. They will also work with the residents to design landscapes to lessen impacts based on LID practices and conduct a small beach/shoreline planting project to show residents the value of plantings to slow shoreline erosion.

Results: The grant funds were allocated to two major projects: boater education and pet waste. Working with the Fairview Beach Residence Association, 10 pet waste stations throughout the community were installed with fully biodegradable pet waste bags. Signage was posted relating to pet waste in local waters. Funds were also used to hold a public workshop on the topic of "clean boating." Marine Science attendees were presented with materials on topics of vessel cleaning and maintenance, petroleum control, vessel sewage, and invasive species.

Amount granted: \$6,000.00

1802 Augustine Ave.  
Fredericksburg, VA 22401  
540-899-9492, Ext. 117

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**Rivanna Conservation Society  
Project #: 009-063**

Plan: As in their 2007 and 2008 grant applications, RCS proposes to continue to support a study of land use/stream health relationships to be conducted by the StreamWatch partnership. For this grant cycle, they will be joining with the City of Charlottesville and The Nature Conservancy to host the World Water Monitoring Day 2009 activities in the Rivanna watershed to educate the community about the link between land use and stream health.

Results: The core RCS programs continue including River Paddles and Clean Ups, biannual newsletters, outreach and educational materials, and exhibits and community involvement events. Highlights included more than 125 volunteers participated in the Riparian Buffer Tree Planting at the Charlottesville/Albemarle Airport, 165 students from Nathaniel Greene Elementary School participated in the Youth Watershed Summit on World Water Monitoring Day, and 60 teachers, educators, and environmental professionals gathered for the Third RCS Teacher Watershed Summit.

Amount granted: \$10,070.00

P.O. Box 1501  
Charlottesville, VA 22902  
434-985-1802

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**Central Blue Ridge Chapter  
Virginia Master Naturalist Program  
Project #: 009-072**

Plan: CBRC proposes to reassess the health of the North Fork, develop a structured, time-phased plan to address the problems found, develop a community awareness program on the importance of their community water resources, and coordinate efforts of other North Fork stakeholders who are interested in the health of the Rockfish River watershed.

Results: The goals of the study were to provide an updated and more detailed assessment of the North Fork than previously available, create a mitigation plan for property owners that supports these and previous findings, provide education that develops community awareness and support for healthy waterways, and coordinate efforts for other stakeholders in the health of the river. With grant funding, they were able to develop testing methodology and mitigation strategies as well as procure testing equipment that are applicable not only to this study but also to others in the future.

Amount granted: \$5,000.00

P.O. Box 113  
Charlottesville, VA 22902  
540-456-6509

**Friends of Stafford Creeks**  
**Project #: 009-077**

Plan: Similar to their 2005, 2007, and 2008 grant applications, FOOSC proposes to continue to establish and operate 12 water quality monitoring sites divided between three major Stafford County watersheds, while developing volunteer and citizen awareness of the importance of water quality. New for this grant cycle, FOOSC will work with Alliance for the Chesapeake Bay to produce a "Report Card" showing stream quality. This will involve recasting FOOSC's data into a user-friendly format that will educate citizens and elected officials about the condition of local waters.

Results: The grant has allowed Friends of Stafford Creeks to reach many constituencies. The monitors have become more informed about and better spokespersons for clean water, while supporting the Department of Environmental Quality's identification of impaired waters. Baseline data for 12 Stafford sites have been added to the pool of information. A compilation of eight years of collected data is available in graph and worksheet format. Community leaders have learned of the work conducted under this grant and its relevance to the water quality in Stafford as well as the Chesapeake Bay.

Amount granted:       \$2,985.00

38 Dobe Point Rd.  
Stafford, VA 22554  
540-657-6674

**Hull Springs Farm Foundation  
Longwood University  
Project #: 009-085**

Plan: HSF, working closely with VIMS, seeks funding to plan and conduct two workshops about shoreline erosion control using environmentally-friendly "Living Shorelines" techniques. The goal of both workshops at the farm will be to increase the use of living shoreline approaches to controlling erosion and decrease the amount of shoreline that is being "hardened" with seawalls, bulkheads, and other structures that harm Va.'s shoreline habitat.

Results: Longwood University's Hull Springs Farm (HSF), working closely with the Virginia Institute of Marine Science (VIMS), held two successful workshops about shoreline erosion control using environmentally-friendly Living Shoreline Techniques. The grant supported a five-hour workshop for Shoreline Project Designers and Contractors and a three and a half-hour workshop for property owners, wetland board members, employees of local governments, and everyone interested in shorelines. The goal of both workshops was to increase the use of Living Shoreline approaches to controlling erosion and decrease the amount of shoreline that is being "hardened" with seawalls, bulkheads, and other structures.

Amount granted:       \$5,200.00

645 Hull Springs Farm Rd.  
Montross, VA 22520  
804-472-2621



**Friends of Reston for Community Projects, Inc.**  
**Project #: 009-092**

Plan: To continue with the next step of their 2007 grant application which was developing a self-guided Stormwater Trail, Reston seeks funding to develop and post educational signage and brochures on the trail that will serve as a guide to help community associations, residents, and youth to better understand stormwater management and will encourage individuals to implement at least one of the demonstrated BMPs to protect water quality from nonpoint source pollution and buffer storm runoff.

Results: The CBRF supported the developing and posting of educational signage and brochures for the self-guided Stormwater Trail in Reston that serves as a guide to help community associations, residents, and youth to better understand stormwater management and encourages individuals to implement at least one of the demonstrated Best Management Practices (BMPs) to protect water quality from nonpoint source pollution and buffer storm runoff. To date, educational signs have been created for each Best Management Practice along the Stormwater Trail including a permeable paver sidewalk, a rain garden, a native plant garden, and a rain barrel all located at Brown's Chapel Park in Reston.

Amount granted: \$5,475.00

1930 Isaac Newton Square  
Reston, VA 20190  
703-435-6560

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**Virginia Living Museum**  
**Project #: 010-015**

Plan: As in their 03-09 grant applications, VACY proposes to continue to conduct six weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 6-10 youths with 240 hours of community service per weekend.

Results: The CBRF underwrote the cost of an environmental science educator to present Chesapeake Bay environmental science programs in the Museum's outdoor amphitheater. During the time period of the grant, the Museum hosted over 103,600 visitors. Four grant-funded environmental education programs were presented daily in the amphitheater for visitors of all ages. Surveys indicated that as a result of attending the programs, visitors gained a better understanding of the Chesapeake Bay's ecological concerns and were motivated to preserve the Bay.

Amount granted: \$6,000.00

301 Albemarle Dr.  
Chesapeake, VA 23322  
757-382-8184

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**Northern Neck Land Conservancy, Inc.**  
**Project #: 010-021**

Plan: In continuing with their 2006 grant application, NNLC proposes to improve its electronic communication and engage a wider range of volunteers, easement donors, and property owners who can implement "River Friendly" practices to protect the Bay and its tributaries. They are seeking funds to enhance their website and institute an E-Newsletter, which will assist the NNLC to build on their "Conservation Tools for Responsible Stewardship" project.

Results: The Cat Point Creek (CPC) Special Project has achieved several successful outcomes in its first year of implementation. Through educational outreach activities, four properties are actively working on placing conservation easements. A spreadsheet database of landowners, partners, facilitators, and participants involved in the CPC project has begun. A guided pontoon boat tour and educational gathering was held to inform landowners of the benefits of conservation easements resulting in landowner interest in placing easement. An updated NNLC website posted information about the CPC Special Project area benefits, established links to partner organizations, and current news on conservation has been constructed with staff training onsite maintenance. The creation of an electronic newsletter for NNLC donors and landowners in the CPC area regarding the benefits of land conservation and project status has had its first issue and will be continuing quarterly.

Amount granted:       \$7,500.00

P.O. Box 125  
Lancaster, VA 22503  
804-435-2334

**Rappahannock-Rapidan Regional Commission**  
**Project #: 010-027**

Plan: With letters of support, R-RRC proposes a pet waste management initiative to include the installation of four canine waste collection kiosks along White's Mill/Cedar Run Stream Valley Trail and the development and distribution of educational material focused on the importance of proper pet waste management.

Results: The Commission, along with Fauquier County Department of Parks and Recreation and John Marshall Soil and Water Conservation District, initiated the program to promote responsible pet waste management in the Town of Warrenton and Fauquier County, Virginia. Program objectives focused on the installation of canine waste collection kiosks along White's Mill Trail and the development and distribution of educational material informing dog owners of the importance of proper pet waste management.

Amount granted: \$3,500.00

420 Southridge Pkwy., Suite 106  
Culpeper, VA 22701  
540-829-7450

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**Tidewater Oyster Gardeners Association**  
**Project #: 010-028**

Plan: Similar to their 2008 and 2009 grant applications, TOGO proposes to continue to expand their educational and outreach activities. They seek funding for a portion of the expenses for the Master Oyster Gardener Course, 2011, the publishing of three newsletters, and participation in two oyster fairs. New for this grant cycle, they also seek funding for their "Oyster Strain Growth and Longevity" project, with the objective being to record the longevity and growth patterns of selectively bred oysters available to aquaculture in different salinity regions within Tidewater Va.

Results: With newsletters, oyster fairs, Master Gardeners Oyster Course, oyster strain growth and longevity study, and workshops, TOGA continued to expand their educational and outreach activities with the help of the CBRF.

Amount granted: \$6,043.00

8218 Hell Neck Rd.  
Gloucester, VA 23061  
804-642-6764

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**Chesapeake Experience**  
**Project #: 010-033**

Plan: For their "Experience the Chesapeake Bay 2010: Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem" course and with letters of support, Chesapeake Experience requests funding, as they did in their 2008 and 2009 grant applications, to provide a week-long professional development training opportunity for 12-15 teachers (grades 4-10) in the Hampton Roads region, with an emphasis on the Bay as an ecosystem, classroom integration, development of useful hands-on activities, and leadership in designing and implementing meaningful field experiences that can be taken back to home schools and shared throughout the educational community.

Results: During this grant period, Chesapeake Experience led workshops for educators in the Hampton Roads Region. They included "Historical and Ecological Perspectives of Jamestown and the Chesapeake Bay," "Coastal Bay Ecology," "Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem," and "Fall Migration and Conservation on the Eastern Shore." All workshops received great reviews as part of the course evaluation.

Amount granted: \$4,983.00

103 Industry Dr.  
Yorktown, VA 23693  
757-890-0502

**Fairfax County - Department of Public Works and Environmental Services**  
**(Stormwater Planning Division)**  
**Project #: 010-040**

Plan: The Stormwater Planning Division proposes to increase environmental education opportunities related to stormwater and watershed issues to the students of Fairfax Co., focusing on elementary students and all residents of the county. They seek funding to reprint Volume 1 of their "Stormy the Raindrop" activity book, create Volume 2 of the same incorporating the 4th grade Ecosystem Unit, create a stormwater board game, provide short pre and post quizzes for students, create a brochure specifically for 3rd and 4th graders, purchase a button maker and related supplies pledging to be a better steward of the environment, and purchase reusable shopping bags and dog waste bag dispensers to distribute at public events, notably the county's "Scoop the Poop" ordinance.

Results: With grant support, SWPD achieved the goal of increasing environmental education opportunities related to stormwater and watershed issues to all residents of Fairfax County. SWPD distributed educational activity books and purchased reusable shopping bags and dog waste bag dispensers which were distributed to the general public. The grant supported 2,700 activity books, 1,000 reusable shopping bags, and 200 dispensers. SWPD's Stormy the Raindrop campaign received a Bronze Governor's Environmental Excellence Award in 2011.

Amount granted:       \$4,525.00

12000 Government Center Pkwy.  
Suite 449  
Fairfax, VA 22035  
703-324-5885

**Piedmont Soil & Water Conservation District Middle James Roundtable  
Project #: 010-045**

Plan: The Roundtable proposes to reinforce the concepts of watershed awareness and personal responsibility, promote these concepts among all sectors of the population, and promote watershed organizations that work to improve the health of the Bay. By expanding to restaurants, they seek funding for the reissuing of 30,000 of its "Five Ways to Help the James" coasters and complementing those with coloring place mats with tips for adults and children. The place mats will also display the logo of the Middle James Roundtable and credit the Chesapeake Bay Restoration Fund.

Results: The Roundtable published and distributed educational placemats and beverage coasters with the support of the CBRF. The placemats display an artistic depiction of the James River watershed that can be colored by children on the one side and a variety of word puzzles and activities on the reverse. Additionally, the Roundtable reprinted the popular beverage coasters that display "5 Ways to Help the James River" tips. The Roundtable was able to produce 50,000 coasters and 62,500 placemats. To date 17,550 coasters and 33,800 placemats have been distributed.

Amount granted: \$7,250.00

100-B Dominion Dr.  
Farmville, VA 23901  
804-748-1920

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**Friends of Chesterfield's Riverfront  
Project #: 010-050**

Plan: Friends proposes to establish a spring series of rain barrel workshops in Chesterfield Co., establish a seminar series focused on rain barrel maintenance and rain barrel design, and educate citizens on nonpoint source pollution control measures in an effort to instill behavioral change.

Results: The Chesterfield County Rain Barrel Workshop series completed its fourth successful season with support from a CBRF grant. The workshop season was the most successful to date as over 230 Chesterfield County residents attended and over 200 rain barrels were constructed and put into service in the county. The workshops generated considerable media coverage while raising awareness about stormwater pollution prevention and stewardship of the Chesapeake Bay and its tributaries.

Amount granted: \$5,050.00

P.O. Box 2158  
Chesterfield, VA 23832  
804-796-1703

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**Science Museum of Virginia Foundation**  
**Project #: 010-054**

Plan: The Museum seeks funding for their new 2,200 square foot interactive exhibition "Crabitat," a Bay story focusing on the biology, ecology, and culture surrounding the crab. Following its six-month run at Broad St. Station in Richmond, "Crabitat" will travel to the Danville Science Center and will then be available to other venues in Va. and Maryland.

Results: *Crabitat*, an exhibition focusing on the crab and its interdependence on the Chesapeake Bay, was partially supported by the fund. The exhibit and companion programs embraced the theme, "Our health and the Bay's health are one." Blue crab life history and habitats, female/male differences, economics, annual catches, threats, nutrition facts, and record size are a few of the topics covered by the exhibit.

Amount granted: \$10,000.00

P.O. Box 11624  
Richmond, VA 23230  
804-864-1413

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**Alliance for the Chesapeake Bay**  
**(RiverTrends Program)**  
**Project #: 010-057**

Plan: As in their 2005 and 2009 grant applications, Alliance seeks funding for their "RiverTrends" program, which is to provide environmental education to increase public awareness of the Bay and the collection of water quality data by citizen volunteers within the Bay. For this grant cycle, they will develop two reports: one for the Tidewater SWCD and one for Isle of Wight County. They will also compile a report on water quality in its service areas over the past 25 years as part of their "25 Years of River Trends" celebration.

Results: The grant supported the enhancement of *RiverTrends*, the Alliance's volunteer water quality monitoring program. The Alliance developed three educational and outreach pieces using water quality monitoring information and data: "25 Years of RiverTrends," "Totuskey Creek Report Card," and "Dissolved Oxygen and Water Clarity in the Lower James River." The grant also provided funding for core *RiverTrends* activities such as volunteer recruitment, recertification training, and database updates, all contributing to the sustainability of this key Virginia program.

Amount granted: \$15,000.00

530 E. Main St., Suite 200  
Richmond, VA 23219  
804-775-0951

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**Northumberland Association for Progressive Stewardship  
Project #: 010-059**

Plan: As in their 2004, 2006, 2007, and 2009 grant applications, NAPS seeks funding to continue to educate citizens about the importance of marshes and encourage them to "garden" their marshes by removing debris and pruning back vegetation, along with planting a variety of marsh plants and controlling *Phragmites australis*.

Results: The fund continued to support the education of citizens about the importance of marshes and encouraging them to garden their marshes by removing debris and pruning back vegetation with support of a variety of marsh plants and controlling *Phragmites australis*.

Amount granted: \$3,440.00

P.O. 567  
Heathsville, VA 22473  
804-453-6605

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**Hoffler Creek Wildlife Foundation  
Project #: 010-062**

Plan: HCWF proposes for their "Expanding Horizons" project to heighten awareness and broaden the appeal of their foundation as a public resource for experiential learning about the Bay and its tributaries. HCWF seeks funding for program personnel, promotional materials, supplies for programs, and contractors' fees to conduct 16 new multifaceted programs.

Results: *Expanding Horizons* enabled Hoffler Creek Wildlife Foundation to design, promote, and implement 16 new programs. The programs were designed to connect the people of Hampton Roads with their natural heritage. The programs successfully introduced thousands of people of all ages to the local environment through music, art, literature, history, science, and outdoor exercise, increasing public awareness of the preserve and support for the foundation and supporting the Chesapeake Bay.

Amount granted: \$15,000.00

4510 Twin Pines Rd.  
Portsmouth, VA 23703  
757-483-6838

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**Science Museum of Western Virginia  
Project #: 010-069**

Plan: The Science Museum proposes to connect the "Living River Exhibit" with their saltwater tank to make a strong connection between the headwaters and the Bay. In order to make the connection, they seek funds to install a "boardwalk" that would serve a dual purpose of concealing the life support systems for the Living River tanks while transporting visitors from the headwaters to the tidewaters. The boardwalk would pass between two exhibits and will feature a diorama scene of the tidewater area.

Results: The *Living River* exhibit and companion educational equipment teaches about watersheds. The CBRF supported the creation of a boardwalk installation to enhance the *Living River* display. By enhancing the *Living River* exhibit, environmental education at the Museum continued to provide a unique, hands-on learning opportunity for the region.

Amount granted: \$5,000.00

One Market Square, 4th Floor  
Roanoke, VA 24011  
540-857-4396

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**Tri-County/City Soil and Water Conservation District  
(Potomac River Education and Monitoring)  
Project #: 010-073**

Plan: As in their 2009 grant application, Tri-County/City SWCD proposes a multi-level/age program to educate youth and adults about the values and current/changing situations of their waterways and its effect on the Bay through two workshops.

Results: The purpose of the grant was to hold two workshops in King George County, Va. to educate citizens of all ages about the values and current/changing situations in our watershed, especially the Potomac River. The District held two, day-long workshops in King George County at Aspen Grove Farm. The farm is a Va. Century Farm and is located in two watersheds. A total of 290 participants rotated between five stations: Enviroscope Watershed Model, Macroinvertebrates, Chemical Testing, Soil Erosion and Soil tubes, and Groundwater Flow Model.

Amount granted: \$4,240.00

1802 Augustine Ave.  
Fredericksburg, VA 22401  
540-656-2401

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**Loudoun Soil & Water Conservation District**  
**Project #: 010-102**

Plan: Continuing further with their grant applications of 1998, 1999, and 02-04, Loudoun SWCD seeks funding for their two "Riparian Buffer Planting Workshops." The workshops will involve students, government agency staff, and local citizen groups in establishing riparian buffers on segments of Jeffries Branch and Wancopin Creek, two tributaries of Goose Creek. Participants will have the opportunity to learn about the values of riparian buffers while being involved in planting native trees, shrubs, grasses, and legumes.

Results: The CBRF allowed LSWCD staff and partners to conduct three workshops that involved 96 school students, five teachers, five government agency staff, and 10 citizen volunteers in establishing 5.5 acres of riparian buffers on segments of Jeffries Branch, Wancopin, and Goose Creek. Participants learned about the values of riparian buffers while planting native trees, shrubs, and grasses. Hands-on participation by workshop participants resulted in planting over 600 native plants.

Amount granted:       \$2,100.00

30-H Catocin Circle, SE  
Leesburg, VA 20175  
703-777-2075, ext. 104

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**Virginia Institute of Marine Science  
College of William and Mary  
(Sea Grant Marine Advisory Program)  
"Oil Spill Education Kits"  
Project #: 011-013**

Plan: Continuing with their 2001, 2003, and 2004 grant applications, the Sea Grant Marine Advisory Program at VIMS proposes to involve marina staff in educating boaters about ways they can control petroleum pollution with better boating practices. They are requesting funds for literature development/production, bags for spill kits, oil absorbent bilge pillows, and personnel.

Results: The Virginia Clean Marina Program encourages voluntary environmental stewardship at marinas and boatyards. The Program provides information that details environmental Best Management Practices for boaters to marinas and boaters. The purchase and distribution of 2,500 oil absorbent bilge pads and fact sheets heightened awareness about this potential environmental problem and provided the boater information about oil absorbent materials and important spill reporting information.

Amount granted: \$2,250.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7768

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**Virginia Turfgrass Council  
Project #: 011-016**

Plan: VTC proposes to conduct a Water Quality Symposium at the Fredericksburg Expo and Conference Center, with emphasis on plant selection, plant maintenance, and proper fertilization. The purpose of the symposium is to train commercial fertilizer applicators to apply in a manner that is both environmentally and biologically appropriate.

Results: The CBRF provided funding to develop and conduct the seminar "Turfgrass and Virginia's Waters." Over 35 persons attended and learned proper methods of protecting Virginia's waters while properly maintaining turfgrass.

Amount granted: \$3,200.00

P.O. Box 5989  
Virginia Beach, VA 23471  
757-464-1004

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**Alliance for the Chesapeake Bay  
(RiverTrends Program)  
Project #: 011-021**

Plan: As in their 2005, 2009, and 2010 grant applications, Alliance seeks funding for their "RiverTrends" program, which is to provide environmental education to increase public awareness of the Bay and the collection of water quality data by citizen volunteers within the Bay. For this grant cycle, they will also develop two reports: one for the Hazel Run watershed and one for the Reedy Creek watershed. The reports will be distributed to local governments, watershed groups, citizens, and used for educational purposes. \$10,300.00 of the requested funds are for personnel and contractual.

Results: The grant supported the enhancement of *RiverTrends*, the Alliance's volunteer water quality monitoring program. The Alliance developed two educational and outreach pieces using water quality monitoring information and data, "Hazel Run Report Card" and "Reedy Creek Report Card." The grant also provided funding for core *RiverTrends* activities such as volunteer recruitment, recertification training, and database updates, all which contribute to the sustainability of this key Virginia program.

Amount granted: \$12,000.00

530 E. Main St., Suite 200  
Richmond, VA 23219  
804-775-0951

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**Northern Neck Soil and Water Conservation District**  
**Project #: 011-033**

Plan: Northern SWCD seeks funding to purchase a microscope, two cameras, two monitors and associated accessories, and setup and usage consultations for use in the "NNSWCD Soil & Water Adventure Mobile," an educational trailer to be fabricated and outfitted to take their programs directly into the rural community.

Results: With the CBRF grant allowance, the NNSWCD is grateful to have been able to greatly broaden its resources for educational programs through the purchase of technology equipment to outfit its newly acquired *Soil & Water Adventure Mobile*. The grant allowed the District to purchase and have installed a microscope, camera, two monitors and associated accessories, and obtain setup and usage consultations with a biologist, which expanded and enhanced the educational programs and field experiences through use of this equipment in their new mobile educational unit.

Amount granted:       \$3,000.00

P.O. Box 220  
5559 Richmond Rd.  
Warsaw, VA 22572  
804-333-3525, ext. 113

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**Tidewater Oyster Gardeners Association**  
**Project #: 011-034**

Plan: Similar to their 08-10 grant applications, TOGO proposes to continue to expand their educational and outreach activities. They seek funding for a portion of the expenses for the Master Oyster Gardener Course, 2012, the publishing of three newsletters, and participation in two oyster fairs.

Results: The project funds were applied to their spring oyster fairs, three annual newsletters, the biennial Master Oyster Gardeners Refresher Course, and the printing of a new publication on oyster gardening. Indirectly, the funds allowed the use of other TOGA funds, primarily from membership dues, to expand their educational and outreach activities and to accomplish all of the above results.

Amount granted:       \$4,000.00

8218 Hell Neck Rd.  
Gloucester, VA 23061  
804-642-6764

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**Robert E. Lee Soil and Water Conservation District**  
**Project #: 011-043**

Plan: Robert E. Lee SWCD seeks funding for three workshops at Sweet Briar College on stormwater and water quality issues.

Results: The fund supported two workshops. The first workshop at Sweet Briar College in Amherst, Va. was a soil and stormwater management workshop focusing on low impact development with a targeted audience of area contractors, builders, and developers. A total of 56 people were in attendance. The second workshop held at Central Virginia Community College in Lynchburg, Va. focused on advanced low impact development with a targeted audience of area engineers with 35 people in attendance.

Amount granted: \$2,963.00

7631 A Richmond Hwy.  
Appomattox, VA 24522  
434-381-6551

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**Central Virginia Land Conservancy**  
**Project #: 011-045**

Plan: The CVaLC seeks funds to develop additional educational materials and programs in order to heighten awareness of the value of natural resources, the importance of planning land use, and the connection of how our land use decisions affect local surface water and stream health.

Results: CVaLC heightened awareness of the value of natural resources, the importance of planning land use, the connection of how land use decisions affect local surface water and stream health through educational programs, and the development of additional educational materials. With funds supplied by CBRF, the members of the CVaLC and partners conducted four educational programs, mailed 3,445 postcards, developed and distributed 4,000 educational newsletters, posted 60 educational displays, distributed two electronic newsletters, displayed and distributed educational materials at community events, created a new web presence, and put a new press release in the local newspaper.

Amount granted: \$8,000.00

P.O. Box 12105  
Lynchburg, VA 24506  
434-942-4320

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**Hoffler Creek Wildlife Foundation**  
**Project #: 011-046**

Plan: "Erasing the Nature Deficit: Solutions for a Healthy Community" is a project designed to overcome the harmful impacts of nature deprivation through community education and action. HCWF proposes to conduct a widespread campaign to acquaint people in Hampton Roads with the importance, particularly to children, of spending time in nature.

Results: All of the funds were spent on exhibits and printed materials for display and for distribution at the preserve and throughout the region. Purchased were materials to construct a large, interactive exhibit that displays some of the wildlife at Hoffler Creek Wildlife Preserve. A more portable new exhibit promotes the Kids in the Woods project underway at the preserve and a refurbished older exhibit promotes the mission of the foundation with pictures of programs and facilities that support the mission. Grant funds also paid for printing educational and promotional materials as well as the postage for one mass mailing related to the project to HCWF members and donors.

Amount granted:       \$2,000.00

4510 Twin Pines Rd.  
Portsmouth, VA 23703  
757-483-6838

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**Deltaville Maritime Museum and  
Holly Point Nature Park  
Project #: 011-047**

Plan: The Museum seeks funding for the campaigning of the F. D. Crockett, a 1924 log-bottom buyboat, throughout the Bay region. The purpose of the campaigning is to provide educational opportunities and promote Bay history on boatbuilding, tradition, trade, watermen, the seafood industry, and ecology.

Results: The fund brought the story of the F. D. Crockett to over 500 school children. The F. D. Crockett accomplished its mission of bringing Chesapeake Bay boatbuilding history and tradition to a variety of ports around the Bay, emphasizing the history of commerce on the Bay, the history of watermen and the seafood industry, and the changes that have resulted from alterations in the Chesapeake Bay ecology. Both adults and school children from throughout the Bay area have been able to walk on the decks of this historic vessel and learn of her role on the Chesapeake Bay. The F. D. Crockett was granted Virginia Landmark Status in 2012.

Amount granted:       \$5,000.00

287 Jackson Creek Rd.  
Deltaville, VA 23043  
804-776-7200



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**Lynnhaven River NOW**  
**Project #: 011-051**

Plan: Lynnhaven River NOW proposes for their "Pearl Homes" program to educate homeowners on best practices, provide training and information to facilitate the adoption of these practices, and to recognize homeowners who make the commitment to follow these best practices. The funds will support the development of the "Pearl Homes" brochure, application form, the establishment of the Pearl Homes Committee, and the implementation procedures.

Results: With funding from the CBRF, the "Pearl Homes" program has been launched. The goals of the project are to educate homeowners on best practices, provide training and information to facilitate the adoption of these practices, and to recognize homeowners who make the commitment to following these best practices. The goal is to reach out to individual homes with easy to follow guidelines on practices that if implemented will engage that household in the restoration effort, help to reduce contaminants entering the Lynnhaven River, restore some of the lost riparian buffers, and raise awareness of individual responsibilities and opportunities to be a part of the solution.

Amount granted:       \$8,000.00

1608 Pleasure House Rd. Suite 108  
Virginia Beach, VA 23455  
757-962-5398

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**Hull Springs Farm Foundation  
Longwood University  
Project #: 011-056**

Plan: HSFF proposes to further its mission to teach the greater community about their role in Bay restoration through permanent outdoor signage describing environmentally-sensitive land use at HSFF; outreach, self-guided instructional tour, and workshop materials; and the use of three pilot groups to review, evaluate, and verify the utility of content of the materials before permanent printing or installation.

Results: Hull Springs Farm is a working farm/forestry operation in transition to an environmental education center. Two Longwood University students worked through the fiscal year living at the Farm researching wildlife diversity, land use history, water quality parameters, and summarizing its natural resources. They produced more than 40 pages of research which will be repurposed in many formats, including a self-guided instructional tour document with special reference to living shorelines and wetland restoration, preservation, and enhancement. The grant enabled the Farm to better present to students and the general public the benefits of living shorelines and wetlands to Chesapeake Bay restoration and preservation.

Amount granted: \$5,000.00

645 Hull Springs Farm Rd.  
Montross, VA 22520  
804-472-2621

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**Friends of the Rappahannock  
(Hazel Run)  
Project #: 011-057**

Plan: Similar to their 2005 and 08-10 grant applications, FOR proposes to continue to provide for environmental education that will increase public awareness and knowledge about the Rappahannock and the Bay, collect water quality data in the Central Rappahannock region by citizen volunteers, and build upon their current framework for a long-term water quality management program. New for this grant cycle, FOR will collect high quality and scientifically useful water quality data on bacteria (E. Coli) levels at Hazel Run watershed.

Results: Staff and volunteers collected high quality and scientifically useful data from nine different sites along Hazel Run, an impaired stream. FOR collaborated with the Alliance for the Chesapeake Bay (ACB) and the City of Fredericksburg to collect and share data, source track, and problem solve. Findings are being distributed to educate, provide solutions, advocate remediation, and prevent further bacterial pollution.

Amount granted: \$4,076.00

3219 Fall Hill Ave.  
Fredericksburg, VA 22401  
540-373-3448

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**Chesapeake Experience**  
**Project #: 011-093**

Plan: For their "Experience the Chesapeake Bay 2011: Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem" course and with numerous letters of support, Chesapeake Experience requests funding, as they did in their 08-10 grant applications, to provide a week-long professional development training opportunity for 12-15 teachers (grades 4-10) in the Hampton Roads region, with an emphasis on the Bay as an ecosystem, classroom integration, development of useful hands-on activities, and leadership in designing and implementing meaningful field experiences that can be taken back to home schools and shared throughout the educational community. They also seek funds for four advanced courses throughout the year for the many educators that are now part of their network.

Results: During this period, Chesapeake Experience has led four workshops for educators in the Hampton Roads region under their project: "Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem." They had 59 educators participating in the workshops and courses. The spring and fall school trip season reflected success with over 1,200 students from grades third to twelfth participating in one or two day field experiences through their programs.

Amount granted: \$5,245.00

103 Industry Dr.  
Yorktown, VA 23693  
757-890-0502

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**Coastal Virginia Wildlife Observatory**  
**Project #: 012-009**

Plan: As in their 03-11 grant applications, CVWO proposes to continue to help promote awareness of the importance of the Bay ecosystem for migratory birds by providing printed materials to supplement the oral presentations given to visitors at Kiptopeke State Park.

Results: The fund helped the Observatory produce educational materials about the importance of the Chesapeake Bay area for wildlife, their main brochure, comprehensive Field Research Reports for 2011 and 2012, and Spring 2013 newsletter. Research and public education work was primarily conducted at Kiptopeke State Park, First Landing State Park, and Eastern Shore of Virginia National Wildlife Refuge.

Amount granted: \$2,900.00

P.O. Box 1225  
Virginia Beach, VA 23451  
757-259-3123

**Science Museum of Western Virginia**  
**Project #: 012-017**

Plan: Continuing with their 2010 and 2011 grant applications, the Science Museum proposes to connect the "Living River Exhibit" with their saltwater tank to make a strong connection between the headwaters and the Bay. In order to make the connection, they seek funds to change their 750 gallon saltwater tank with Tidewater diorama fabrication, initial stocking of live creatures, and graphic panels.

Results: The CBRF has continued support for *Living River - Headwaters to the Bay* exhibit located in the new Healthy Earth Gallery. In the exhibit, three tanks demonstrate the variety of life from the headwaters in the Roanoke area to the Tidewater area. The river empties into a touch tank that allows visitors to interact with and learn about Tidewater creatures such as horseshoe crabs, sea stars, and sponges. Thanks to the fund, the Science Museum has been able to fabricate a Tidewater Diorama, including a beach boardwalk.

Amount granted: \$6,000.00

One Market Square, 4th Floor  
Roanoke, VA 24011  
540-342-5710

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**Eastern Shore Community College Foundation**  
**Project #: 012-020**

Plan: Eastern Shore Community College Foundation seeks funding to conduct Bay Environmental Education programs, which include kayak trips for 100 students, faculty, and advisory staff and field trips for 100 family participants in the SPARK (Shore People Advancing Readiness for Knowledge) family learning program.

Results: As a result of the fund, the Foundation completed the following activities: Twenty-nine Eastern Shore Community College (ESCC) students, faculty, and staff members participated in the ESCC Chesapeake Bay Education Program and kayak trips conducted by SouthEast Expeditions on Onancock Creek. The Shore People Advancing Readiness for Knowledge (SPARK) family learning program provided monthly Chesapeake Bay environmental education programs and field trips for 11 families. The SPARK program also provided weekly environmental education packets to 150 participating families during the Fall 2012 semester in cooperation with Accomack County Public Schools.

Amount granted: \$8,000.00

29300 Lankford Hwy.  
Melfa, VA 23410  
757-789-1767

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**Tidewater Oyster Gardeners Association**  
**Project #: 012-021**

Plan: Similar to their 08-11 grant applications, TOGO proposes to continue to expand their educational and outreach activities. They seek funding for a portion of the expenses for the Master Oyster Gardener Course, 2013, the publishing of three newsletters, and participation in two oyster fairs.

Results: The project funds were applied directly to spring oyster fairs, three annual newsletters, and the biennial Master Oyster Gardeners Course. The CBRF project funds allowed the use of other TOGA funds, primarily from membership dues, to further expand educational and outreach activities and to accomplish all of the above results.

Amount granted: \$4,000.00

P.O. Box 2463  
Gloucester, VA 23061  
804-462-3131

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**Friends of the Lower Appomattox River**  
**Project #: 012-033**

Plan: On their trails at the Appomattox River Regional Park, FOLAR proposes to develop trail signage pointing out wetlands and their importance to the health of the Appomattox River and the Bay. They seek funds to purchase and install three educational signs that would provide students and visitors with important information as they walk along the trails.

Results: The mission of the Friends (FOLAR) is to conserve and protect the Appomattox River through education and volunteer projects. FOLAR received a grant from CBRF to support the installation of four interpretive signs in the park. The signs communicate the important role of riparian buffers and wetlands in protecting water quality in the Appomattox River and Chesapeake Bay. Additional signs highlight bald eagles' nests in the park and the critical role of the land in the Federal Siege of Petersburg during the Civil War. Together, the four signs convey the natural and cultural story of this important site. The interpretive signs also have play placards that credit the grant program supported by the sale of Friends of the Chesapeake Bay license plates.

Amount granted: \$2,100.00

P.O. Box 1808  
1964 Wakefield St.  
Petersburg, VA 23805  
804-943-6378

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**Nansemond River Preservation Alliance**  
**Project #: 012-039**

Plan: NRPA seeks funding to expand their "Oyster Restoration" project, publish and distribute three "River Chat" newsletters, publish the "Annual State of the Nansemond River Report," and offer three "River Talks" community environmental educational workshops.

Results: The NRPA Environmental Education, Water Quality, and Shoreline Committees have made significant progress towards increasing the citizen's knowledge and understanding of best practices to be an environmental steward. The NRPA Water Quality Committee reviewed and analyzed the water quality sampling data collected by the committee during 2012. The NRPA committees and NRPA volunteers, which included students, participated in the June 2 "Clean the Bay Day" and NRPA published and disseminated the Summer 2012 and December 2012 NRPA *River Chat* newsletter.

Amount granted: \$8,700.00

P.O. Box 6090  
Suffolk, VA 23433  
757-745-7447

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**Deltaville Maritime Museum and**  
**Holly Point Nature Park**  
**Project #: 012-040**

Plan: As in their 2011 grant application, the Museum seeks funding for the campaigning of the F. D. Crockett, a 1924 log-bottom buyboat, throughout the Bay region. The purpose of the campaigning is to provide educational opportunities and promote Bay history on boatbuilding, tradition, trade, watermen, the seafood industry, and ecology.

Results: The F. D. Crockett's annual campaign year continued its mission of bringing the traditions of the watermen to the general public around the Chesapeake Bay. Outreach programs brought visitors from 14 different ports to visit the boat, enabling them to visualize the life of a waterman or tradesman who worked on the Chesapeake Bay during the last century. While many of these visitors were learning about buyboats for the first time, an added benefit was that of older watermen reacquainting with their children with the type of vessel that had been so important to the economic and family lives of their parents, grandparents, and great-great-grandparents.

Amount granted: \$5,000.00

287 Jackson Creek Rd.  
Deltaville, VA 23043  
804-776-7200

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**Chesapeake Experience  
Project #: 012-041**

Plan: For their "Experience the Chesapeake Bay 2012: Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem" course and with numerous letters of support, Chesapeake Experience requests funding, expanding their 08-11 grant applications, to provide a 12 day professional development course for 12-15 teachers on scholarship in the Hampton Roads region, with an emphasis on the Bay as an ecosystem, classroom integration, development of useful hands-on activities, and leadership in designing and implementing meaningful field experiences that can be taken back to home schools and shared throughout the educational community. Based on positive evaluations from the last four years, the course will be designed very similar to the previous trainings but they will add two weekend field experiences to include more of the Bay watershed.

Results: Funding for their "Experience the Chesapeake Bay 2012: Educators Getting Up Close and Personal with the Chesapeake Bay Ecosystem" course allowed Chesapeake Experience to conduct four workshops for 46 educators in the Hampton Roads region.

Amount granted: \$7,202.00

103 Industry Dr.  
Yorktown, VA 23693  
757-890-0502

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**Urbanna Oyster Festival Foundation  
Marine Science Legacy Program  
Project #: 012-045**

Plan: As in their 2011 grant application and with letters of support, the Foundation seeks funding for their "Marine Science Legacy Program," which involves Middlesex Co. students and teachers in active environmental learning by providing on the water educational programs with CBF. They also seek funds for their "Education Day," which provides programs for their historic working watercraft, tents to house the exhibitors, and specific programs.

Results: Funding from the CBRF allowed the Marine Science Legacy Program to provide 10 days of on-the-water field trips to 292 students from Middlesex County Public Schools and Christchurch School on the Chesapeake Bay Foundation's Research Vessel Bea Hayman Clark. Oyster Festival Education Day was held at the Urbanna Town Waterfront the day before the Oyster Festival. This was a hands-on educational day for 283 students from eight different schools that included activities relating to the Bay's past, present, its ecology, and preservation.

Amount granted: \$4,980.00

P.O. Box C  
Urbanna, VA 23175  
804-758-0368



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**Chesterfield County, Virginia**  
**Department of Environmental Engineering**  
**Project #: 012-050**

Plan: With letters of support, the County seeks funding to hold 3-4 rain garden workshops at no cost on county properties, create public rain gardens at each workshop location, install interpretive signs at each public rain garden, publish a "Rain Garden Design and Installation Guide" for free county-wide distribution, and create a report that documents the rain gardens.

Results: The Chesterfield County Rain Garden Resource Program began in 2012. *The Rain Garden Installation and Design* guide was published in the summer and the first workshops were held in the fall. More than 40 residents attended the workshops and over 2,000 copies of the design guide have been distributed. Chesterfield County has entered a new partnership with the Virginia State Parks to offer rain garden workshops at Pocahontas State Park in the fall.

Amount granted:       \$9,000.00

P.O. Box 40  
Chesterfield, VA 23832  
804-748-1920

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**Virginia Department of Forestry**  
**Project #: 012-064**

Plan: Continuing with their riparian forest buffer projects as in grant applications 1997, 2000, and 2002, the VDOF proposes to locate landowners in Rockingham, Shenandoah, Page, Warren, and Augusta counties through GIS maps that show a lack of forest buffers along waterways. Once contacted, the landowners will be presented with riparian forest buffer educational opportunities. VDOF's goal is to get more forest buffers on the ground where they are needed and where they will make a difference in pollution load reduction.

Results: The final riparian forest buffer education and implementation portion of the CBRF grant was complete. Information that is helpful for the management of land that is open, agricultural, or already forested was mined from literature, programs, and natural resource agency websites. The information was compiled, edited, and put into a publication entitled "Forests and Water." It offers facts and resources to landowners. The water quality message, the need for land management plans, and the importance of protecting waterways with riparian forest buffers is presented. VDF is optimistic that inquiries and opportunities to discuss land management options that include riparian forest buffers will arise from the mailing of this publication.

Amount granted:       \$5,500.00

900 Natural Resources Dr.  
Suite 800  
Charlottesville, VA 22903  
434-977-6555

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**Elizabeth River Project**  
**Project #: 012-076**

Plan: Continuing with their 00-05 and 2008 grant applications on the "River Star" program, Elizabeth River proposes to use two innovative new education tools, "River Star Homes" and the "Learning Barge," to enlist the public in helping reduce nutrients that contribute to the red tide. The project will focus on a Norfolk neighborhood that appears to be the epicenter of the algal bloom.

Results: Thanks to the fund, the "Learning Barge" served as an educational platform for 6,803 students learning how to help reduce nutrients in the Lafayette Branch of the Elizabeth River in Norfolk. In addition, 82 youth participated in their first summer camp *Elizabeth River Adventures*, four teacher workshops were held for 85 teachers, and the barge was open to the public during four events where 7,773 passengers participated in hands-on barge education. All education initiatives resulted in 150 River Star Schools (20 on the Lafayette Branch) and 19,606 students being recognized for implementing river projects as environmental stewards.

Amount granted: \$5,000.00

475 Water St., Suite 103A  
Portsmouth, VA 23704  
757-399-7487

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**Clean Virginia Waterways**  
**Longwood University**  
**Project #: 012-080**

Plan: As in their 2003, 2010, and 2011 grant applications, CVW seeks funds for the "2012 International Coastal Cleanup in Virginia," which is a project to increase public awareness and knowledge of Va.'s watersheds by involving volunteers in removing solid waste debris and litter from beaches and the tributaries to the Bay.

Results: Thanks to the CBRF, a record total of 7,491 Virginians volunteered in Clean Virginia Waterways' statewide cleanup of Virginia's rivers, beaches, and coastal waters in 2012. This was a 23 percent increase from the previous year. They bagged 491,505 pounds of trash. Fifteen marinas participated in the annual cleanup.

Amount granted: \$9,000.00

Dept. of Natural Sciences Stevens 113  
201 High St.  
Farmville, VA 23909  
434-395-2602

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**Eastern Mennonite University - D. Ralph Hostetter Museum of Natural History**  
**Project #: 012-086**

Plan: EMU proposes to raise local awareness about the Bay watershed and educate area teachers, students, and special interest groups about the need for stewardship and environmental responsibility. Their primary goal is to provide individuals with the opportunity to interact with a functional watershed model.

Results: The Museum used funds to purchase three interactive, tabletop watershed models for use in education workshops and presentations on site and at local area schools; upgrade displays for programs, presentations, and development; and offer programming that addressed environmental sciences as part of state and local learning standards. The impact of the program has been widespread through the direct visitation to the museum, as well as indirect impact on the community through the awareness generated toward the protection of and impact on watersheds through the area. Since the implementation of the watershed program, over 2,500 visitors have frequented the museum and 1,373 local elementary students have participated.

Amount granted:       \$5,300.00

1200 Park Rd.  
Harrisonburg, VA 22802  
540-432-4400

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**Alliance for the Chesapeake Bay  
(RiverTrends Program)  
Project #: 012-089**

Plan: As in their 2005 and 09-11 grant applications, Alliance seeks funding for their "RiverTrends" program, which is to provide environmental education to increase public awareness of the Bay and the collection of water quality data by citizen volunteers within the Bay. For this grant cycle, they will provide stakeholders information on water quality issues and solutions to identified problems.

Results: With funding from CBRF, the Alliance for the Chesapeake Bay enhanced the *RiverTrends* (volunteer water quality monitoring) program by recruiting new volunteers, recertifying current volunteers, and developing outreach educational materials to promote watershed stewardship using the volunteer-collected data. The goal of this project was to effectively use the volunteer-collected data for education and interpretation by developing water quality reports, thus leading to public awareness and knowledge about water quality in Virginia's portion of the Chesapeake Bay watershed. For this grant, the Totuskey Creek Report Card was developed and published.

Amount granted: \$4,000.00

530 E. Main St., Suite 200  
Richmond, VA 23219  
804-775-0951

# RESTORATION/ CONSERVATION PROJECTS

**WATER QUALITY  
MONITORING  
AND EASEMENTS**

**MONITORING & RESTORATION EFFORTS**

**Va. Division of the Izaak Walton League - Va. Save Our Streams  
Project #: 000-021**

Plan: Va. SOS proposes to continue to train citizens in a biological type of water quality monitoring.

Results: The League trains interested citizens to use a scientifically valid method of water quality monitoring. They are encouraged to collect data on a watershed basis wherein state agencies supplement their own data from this information. An additional benefit of Va. SOS is the public-private partnership that they are building to support citizen stewardship activities in the Commonwealth.

Amount granted: \$10,000.00

7598 N. Lee Hwy.  
Raphine, VA 24472  
540-377-6179

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**Virginia Marine Resources Commission - Conservation and Replenishment Division  
Project #: 000-024**

Plan: VMRC proposes to rebuild an oyster reef with 20,000 bushels of oyster shells at Craney Island Creek in the Elizabeth River in an effort to restore oyster populations. This will also provide students in the Portsmouth Public School System with an opportunity to become actively engaged in a resource restoration project.

Results: The project title is "Oyster Reef Restoration at Craney Island Creek in the Elizabeth River with the Portsmouth Public School System." Students at W. E. Waters Middle School, as well as several other schools in Norfolk and Portsmouth, grew oysters during the school year to place on this reef in late spring. The Chesapeake Bay Foundation has added this reef to their restoration efforts and used this site for many of their education trips.

Amount granted: \$30,000.00

2600 Washington Ave.  
Newport News, VA 23607-0756  
757-247-2121

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**Mattaponi Heritage Foundation**  
**Project #: 000-027**

Plan: The Foundation request funds to provide training and support for the water quality monitoring program and a fish tagging operation at the Bay. They would also like support in the shad hatchery and funds to purchase a computer and CD disc which will be provided to teachers for libraries and appropriate agencies.

Results: The new state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility experienced an extremely successful shad restoration season with more than four million fry hatched and returned to the Mattaponi River. The hatchery also housed a water quality monitoring laboratory to monitor the health of the Mattaponi River.

Amount granted: \$12,000.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**Interstate Commission on the Potomac River Basin**  
**Project #: 000-041**

Plan: As part of a multi-agency effort to restore American shad and provide a functioning passageway for anadromous fish at the Little Falls Dam, Potomac River, the Commission seeks funds to stock and imprint larvae to historical spawning waters and monitor migratory fish activity in the vicinity of the dam to assess fish passage effectiveness and potential stock recovery.

Results: This project is part of an effort by a coalition of federal, state, regional and local agencies, and nonprofit groups organized as a Task Force to pen historic spawning and nursery habitat for native and anadromous fishes in the Potomac River. Approximately 3.2 million shad fry were stocked in the Potomac River in 2000, bringing the six year total for this project to over 10.7 million.

Amount granted: \$10,000.00

6110 Executive Blvd.  
Suite 300  
Rockville, MD 20852-3903  
301-984-1908, Ext. 106



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**The Elizabeth River Project**  
**Project #: 000-042**

Plan: The Project proposes to expand the impact of the "RIVER STARS" project which is aimed at reducing toxic impacts and restoring wildlife habitat in a degraded Bay tributary and to provide a practical model for improving environmental quality in other urban areas of the Bay by educating businesses and schools.

Results: This project resulted in enhanced environmental education for residents and industries along the Chesapeake Bay's most toxic tributary, the Elizabeth River. It met or exceeded additional objectives for toxic reduction and wildlife habitat restoration and conservation through voluntary projects of "River Stars" facilities. Among "River Stars" participating during the project, more than 50 percent achieved documented results in either pollution prevention or sustainable landscaping or both. "River Stars" restored or conserved more than 26 acres of wildlife habitat. The Elizabeth River Project also prepared and disseminated a "case study" and educational newsletter, *Mudflats*.

Amount granted: \$20,000.00

801 Boush St., Suite 204  
Norfolk, VA 23510  
757-625-3648

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**James River Association  
Project #: 000-046**

Plan: The Association proposes to expand their efforts to protect and restore vegetated riparian buffers in order to reduce nutrient and sediment loadings to the James River. This will be done by citizens and students planting trees in riparian buffers.

Results: This project has provided a number of opportunities for collaborative efforts among stakeholders in the James River watershed for the development and implementation of nutrient and sediment reduction goals, tributary strategies, and watershed planning. Several workshops have been held to educate property owners and professionals about water quality, water resources, land conservation, land planning, and development options. Important riparian areas have been mapped and individual landowners are receiving assistance with buffer planting, restoration, voluntary agreements, and easements. Over 16,000 trees have been planted in riparian buffers, along over almost five miles of shoreline and over 60 acres of land. Several easements have been recorded or are currently under negotiation.

Amount granted: \$10,000.00

P.O. Box 110  
Richmond, VA 23218  
804-730-2898

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**Va. Institute of Marine Science/College of William and Mary  
(Oyster Gardener/ABC Interaction Project)  
Project #: 000-053**

Plan: VIMS proposes to develop an ongoing water testing and reporting program for gardeners so there can be a more informed site selection and establish an awareness of the environment. The goal of this project is to organize a network of gardeners as a resource by establishing a web-based database of conditions at their sites and to expand this network to the next generation of gardeners by presentations to area schools.

Results: As a result of funds from CBRF, VIMS has been able to develop the database and web page portions of this project and to produce a sentinel oyster project which allows monitoring of disease pressure at gardener sites. The database and web page have proven to be a valuable tool in work to improve oyster seed for restoration efforts in the Chesapeake Bay.

Amount granted: \$12,500.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7713

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**Piedmont Environmental Council  
Project #: 000-054**

Plan: PEC would like to continue easement outreach and education in Albemarle and Orange Counties and expand into Greene and Rappahannock Counties. PEC would also like to undertake easement outreach and education along the Hughes River, which flows through Rappahannock, Madison, and Culpeper Counties. This would be done through area maps, distributing packets, brochures, and workshops describing the benefits of donating conservation easements and how to go about providing easements.

Results: Through the efforts of the PEC staff, largely made possible by the CBRF grant, there are currently 14 active easement leads representing over 2,500 acres of land in Orange County. Two easements representing over 270 acres have been approved by the Virginia Outdoor Foundation. Thanks to the maps, easement packets, parties, and meetings, hundreds of landowners in Orange know about the benefits of conservation easements.

Amount granted: \$15,000.00

P.O. Box 460  
Warrenton, VA 20188  
540-347-2334

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**Hopewell Regional Wastewater Treatment Facility  
Project #: 000-074**

Plan: RWTF proposes a project to restore submerged aquatic vegetation (SAV) at three sites in unvegetated shallow water in the James River, monitor the sites for water quality and SAV growth and survival, and provide hands-on educational experience in SAV propagation and restoration for Virginia secondary school students.

Results: Transplanting of wild celery into the Hopewell region of the James River was successful with survival at all four of the sites throughout the growing season. Habitat conditions and submerged aquatic vegetation (SAV) transplants continue to suggest that SAV regrowth should be possible given SAV sufficient abundance to overcome the natural foraging activities of animals on the plants. Restoration of the SAV can be a potentially important component of the ecosystem because of their value to fish and water fowl and their recovery can be an important catalyst for positive ecosystem change throughout the region and the Chesapeake Bay.

Amount granted: \$10,000.00

P.O. Box 969  
Hopewell, VA 23860

**Granby High School  
Project #: 000-083**

Plan: Granby High School proposes to monitor three different areas of Norfolk: Ocean View, Lafayette River, and the Elizabeth River, to determine what environmental factors may influence the quality of water and thus the quality of flora and fauna in high use areas.

Results: The goal of the project was to monitor water quality in three different areas of Norfolk: Lafayette River, Elizabeth River, and Mason Creek (Ocean View). The objective was to determine what environmental factors may influence the quality of water in high use areas. The students predicted the water quality of the three sites and ranked the sites from best to worst in the following order: 1) Mason Creek, 2) Elizabeth River, and 3) Lafayette River. The students found that the prediction was supported by the data.

Amount granted: \$1,107.00

7101 Granby St.  
Norfolk, VA 23505  
757-441-1265

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**Water Quality Advisory Committee for Page County  
Project #: 000-085**

Plan: Page County proposes to do additional water quality testing and monitoring in the Hawksbill Watershed and provide for public education and awareness of project findings.

Results: The Water Quality Advisory Committee for Page County, a group consisting of 15 volunteer members, met on a regular basis to discuss water quality issues. Through the grant, nine sampling sites were monitored for fecal coliform and twice per month for nitrogen (as nitrate), nitrogen (as ammonia), phosphorus (as phosphate, acidity (pH), and dissolved oxygen.

Amount granted: \$3,000.00

117 S. Court St.  
Luray, VA 22835  
540-743-6528

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**Friends of the Shenandoah River (Shenandoah River Basin)**  
**Project #: 000-086**

Plan: FSR seeks funding for long-term monitoring of water quality in the Shenandoah River Basin. Their primary aim is to provide non-biased scientific data for use by private and public agencies in non-regulatory decision-making processes such as identifying sites or tributary watersheds in need of conservation measures.

Results: The funds were utilized in operation of the Friends water analysis lab. The grant was split between lab personnel and lab supplies in order to monitor the Shenandoah River Basin.

Amount granted: \$15,000.00

P.O. Box 410  
Front Royal, VA 22630  
540-636-4948

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**Lake Anna Civic Association**  
**Project #: 001-012**

Plan: LACA requests funding to support analyses of fecal coliform pollutant sources in Lake Anna identified by the LACA Water Quality Monitoring Project. The funds will be used for water quality monitoring kits, volunteer transportation, water sample analyses, DNA analyses, consultant expenses, and administration.

Results: With the purchase of additional equipment, monitoring of 21 sites was accomplished. Monitoring to date had not indicated any serious water quality issues in the main lake and any impairments arising in the tributary streams appear to be successfully absorbed by the lake.

Amount granted \$3,000.00

P.O. Box 217  
Mineral, VA 23117-0217  
540-854-5753

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**Partners In Parks  
Project #: 001-018**

Plan: Partners In Parks proposes to determine the presence of all amphibians and reptiles in selected parks and adjacent lands, map locations and habitats where each species is found, prepare recommendations to protect and/or restore habitats, and provide suggestions for future monitoring.

Results: Partners in Parks recruited and organized 30 volunteers to assist Richard Orr's study of dragonflies in part of the Potomac River Basin, which is a significant portion of the Chesapeake Bay watershed. The volunteers collected nearly 1,000 "cast skins," the external shell of dragonfly larvae, for Richard Orr's classification. Collecting should increase the database and complete a baseline of numbers and varieties of dragonflies that may be found in the ecosystem for comparison with future surveys.

Amount granted: \$5,000.00

2220 Malraux Dr.  
Vienna, VA 22182-5042  
703-573-7577 or 8938

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**Va. Marine Resources Commission, Conservation and Replenishment Division  
(Oyster Shells)  
Project #: 001-019**

Plan: VMRC proposes to rebuild a three-dimensional oyster reef on the Back River with 24,000 bushels of oyster shells in an effort to reestablish a healthy oyster population. This will also provide Hampton citizens, school children, and Langley Air Force Base employees with an opportunity to become actively engaged in a resource restoration project.

Results: The project *Oyster Reefs, Submerged Aquatic Vegetation and Marsh Restoration for Shoreline Stabilization and Improved Ecological Complexity* was completed. As a result of this project, the Chesapeake Bay Foundation has successfully transplanted 183,000 oysters to the newly constructed oyster sanctuary reef located in Back River, Hampton, Virginia.

Amount granted: \$30,000.00

2600 Washington Ave., 3rd Fl.  
Newport News, VA 23607-0756  
757-247-2121

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**Audubon Naturalist Society of the Central Atlantic States, Inc.**  
**Project #: 001-041**

Plan: ANS proposes to continue their Water Quality Monitoring and Outreach Programs in Fairfax, Prince William, Loudoun, and Arlington Counties in order to increase public awareness about and support for restoring and protecting local watersheds and the Bay.

Results: The Audubon Naturalist Society's Northern Virginia Water Quality Monitoring and Outreach Program have directly reached more than 650 individuals with watershed education activities to help them understand the link between the local waters and the health of the Chesapeake Bay. In this water quality monitoring program, water quality data was collected in 28 stream sites in Loudoun, Prince William, and Fairfax Counties. This has also created a resource for local government, citizens' organizations, and others concerned with water quality.

Amount granted: \$13,000.00

8940 Jones Bridge Rd.  
Chevy Chase, MD 20815  
703-803-8400

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**Interstate Commission on the Potomac River Basin**  
**Project #: 001-042**

Plan: ICPRB with multi-agency effort proposes to continue with their grant of 2000 to restore American shad and provide a functioning passageway for anadromous fish at the Little Falls Dam, Potomac River. The Commission seeks funds to stock and imprint larvae to historical spawning waters and monitor migratory fish activity in the vicinity of the dam to assess fish passage effectiveness and potential stock recovery.

Results: This project is part of an effort by a coalition of federal, state, regional and local agencies, and nonprofit groups organized as a Task Force to open historic spawning and nursery habitat for native and anadromous fishes in the Potomac River. Approximately 33 million shad fry were stocked into the Potomac River in 2001, bringing the seven year total for this project to over 14 million. The number of adult American shad collected during the spring broodstock collections has more than doubled and the number of fry stocked has tripled.

Amount granted: \$12,000.00

6110 Executive Blvd.  
Suite 300  
Rockville, MD 20852-3903  
301-984-1908, ext. 106

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**Fairfax County Park Authority  
(Ellanor C. Lawrence Park)  
Project #: 001-065**

Plan: Fairfax County Park Authority proposes to construct an off-line rain garden in Ellanor C. Lawrence Park to remove nonpoint source pollution from stormwater runoff through bioretention. They are requesting funds for an educational/interpretive sign demonstrating the effectiveness of rain gardens, a chemical monitoring test kit and turbidity kit, five magiscopes, and one 40x achromatic lens, all of which will be used for their water quality and monitoring programs.

Results: The project resulted in the construction of a 1,800 square foot rain garden and the installation of 200 plants to stabilize the feature and provide water quality and habitat benefits. The most tangible result of the project is the treatment of over 1,800 cubic feet of stormwater during each rain event. This reduces the nutrient and pollutant load going into the park's one acre pond and into Big Rocky Run, a tributary to the Occoquan River and the Chesapeake Bay.

Amount granted: \$3,916.00

5040 Walney Rd.  
Chantilly, VA 20151  
703-631-0013

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**The Friends of the Shenandoah River  
Project #: 001-073**

Plan: FSR proposes, as in their 2000 grant, to continue with their long-term monitoring of water quality in the Shenandoah River Basin by requesting funds for a Lab Technician and supplies.

Results: The funding provided was utilized for laboratory supplies used in the Friends of the Shenandoah water monitoring and analysis program. Summary reports from Clarke, Page, Shenandoah, Warren, Augusta, and Rockingham Counties provided information to support Best Manage Projects on agriculture lands, surface water quality, identification of tributary sources of sediment, and nutrients that impact the Chesapeake Bay. County governments rely on this information to identify problem areas that are unsuited for industry or housing development.

Amount granted: \$5,000.00

P.O. Box 410  
Front Royal, VA 22630  
540-636-4948



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**Va. Marine Resources Commission  
(Telephone Survey)  
Project #: 001-081**

Plan: VMRC proposes to provide initial estimates of effort and catch associated with the Virginia recreational blue crab fishery, mainly using telephone, mail, and some field surveys. The project will complement a coincident study of the Maryland blue crab fishery in order to provide Bay-wide recreational effort and catch data.

Results: Out of 63,109 telephone calls made by VCU, 36.6 percent resulted in interviews related to recreational crab fishing. The telephone survey results were the integral component used to derive catch pertinent estimates in conjunction with (point of access) interviews. The telephone survey results of 3,267,000 crabs taken by 258,100 fishing trips were directly beneficial to the VMRC management plan for blue crabs. This information helped guide the VMRC blue crab management strategies and future surveys of the recreational crab fishery can rely on the methods utilized by this project.

Amount granted        \$20,000.00

2600 Washington Ave.  
Floor 3  
Newport News, VA 23607  
757-247-2236

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**Va. Division of the Izaak Walton League of America  
(Va. Save Our Streams Program)  
Project #: 001-083**

Plan: Virginia SOS proposes to train interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring.

Results: The fund has helped train interested citizens to use a scientifically valid method of water quality monitoring. The data collected supplemented state agencies data. Besides creating citizen stewardship, an additional benefit is public-private partnership. This includes Izaak Walton (Va. Division), DEQ, DCR, Virginia Cooperative Extension, Game Dept., Forestry Dept., the business community, the agricultural community, public and private colleges, municipalities, grass roots groups, and individuals.

Amount granted:        \$10,000.00

7598 North Lee Hwy.  
Raphine, VA 24472  
540-377-6179

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**Department of Conservation and Recreation  
Division of Natural Heritage (Savage Neck Dunes)  
Project #: 001-094**

Plan: DCR acquired Savage Neck Dunes Natural Area Preserve and its 84 acres of agricultural fields are in great need of hydrological and vegetative restoration to enhance the Bay water quality and provide suitable early-successional forested wetlands habitat needed to support concentrations of migratory land birds.

Results: Project funding has supported the development of a comprehensive restoration plan and resulted in DCR securing federal funds to conduct extensive restoration activities at Savage Neck Dunes Natural Area Preserve. Restoration will result in significant increases in critical Bay-side habitats for migratory birds on the Eastern Shore and improved water quality in the Bay.

Amount granted: \$5,000.00

217 Governor St., 3rd Floor  
Richmond, VA 23219  
804-371-6204

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**Virginia Department of Forestry  
Project #: 001-097**

Plan: The Department of Forestry proposes a project to develop the capability to detect significant changes in the forest cover/land use, on a statewide basis, which impacts water quality and watershed management plans. They seek funding to purchase ERDAS change detection analysis software, a computer workstation, satellite imagery, a GPS unit, and for staff training.

Results: With resources from this grant, the Virginia Department of Forestry was able to develop the tools and techniques to use satellite imagery to perform change detection analysis. The grant facilitated the acquisition of GPS and computer hardware, image analysis software, satellite imagery, and training to support DOF's analysis efforts. Benefits from DOF's newly developed technological capacity include multiple dates of satellite imagery to detect changes to the landscape, Riparian Buffer Tax Credit compliance monitoring using change detection, and complying with the Chesapeake Bay Agreement's goals of establishing measures to evaluate conservation and restoration efforts.

Amount granted: \$25,200.00

900 Natural Resource Dr.  
Suite 800  
Charlottesville, VA 22903

**Friends of the North Fork Shenandoah River  
Project #: 002-002**

Plan: By using students and volunteers, Friends proposes nine cleanups during the year along the bottom and bank of the Shenandoah River.

Results: This fund supported a major river cleanup along the North Fork Shenandoah River at Route 604 in Strasburg. The total amount of debris disposed at the landfill amounted to over one-half ton.

Amount granted: \$4,500.00

P.O. Box 746  
122 S. Commerce St.  
Woodstock, VA 22664  
540-459-8550

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**Va. Tech - Eastern Shore Agricultural Research and Extension Center  
Project #: 002-018**

Plan: This project proposes to collect data necessary to assess soil nutrient accumulations and chemical characteristics of agricultural fields in the Bay watershed, use this data to evaluate the effectiveness of Virginia's P-index, and develop educational materials and programs using the P-index to meet nutrient reduction goals.

Results: The P-index values calculated in different water quality impact potential for approximately 10 percent of the fields evaluated. The result indicated the expansion of Virginia's P-index to more accurately estimate the potential for off-site movement in the Chesapeake Bay. Portions of the results were presented to 300 agricultural producers as part of 12 educational outreach programs.

Amount granted: \$13,200.00

33446 Research Dr.  
Painter, VA 23420  
757-414-0724, Ext. 16

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**Virginia Marine Resources Commission (American Shad Program)**  
**Project #: 002-020**

Plan: VMRC proposes to hire 10-12 commercial fishermen at the rate of \$200.00 per fishing day to set gill nets on the spawning grounds of the Pamunkey River for the capture of American shad broodstock. Approximately 1,200 to 1,400 adult shad are needed to produce sufficient fry for stocking.

Results: The funds were used to procure the services of nine commercial fisherman for the purposes of capturing American shad broodstock. A total of 297 man-days of fishing effort over 33 days were expended. A total of 24,073,191 million eggs were produced during the collection season, resulting in the production and stocking of 12.98 million shad fry, 8.7 million were stocked in the James River above Boshers Dam, and the remainder were stocked in the Pamunkey River. Sampling in the James River indicated that over 40 percent of the captured shad now are of hatchery origin, an indication of successful hatchery efforts.

Amount granted: \$20,000.00

2600 Washington Ave., 3rd Floor  
Newport News, VA 23607-0756  
757-247-2247

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**Mattaponi Heritage Foundation**  
**Project #: 002-029**

Plan: As in their 2001 application, the Foundation requests additional funding for their shad hatchery, including the upgrading of a water filtration system of a much higher capacity, two Sun Mar composting toilets, supplies, and fish to supply the roe and sperm for the 2002 season.

Results: With the new state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its third year of operation, the Mattaponi people experienced another extremely successful shad restoration season. More than four million fry were hatched and returned back to the Mattaponi River. In addition, the hatchery housed a water quality monitoring laboratory to monitor the health of the Mattaponi River. The new facility has proven to be an important center for the continued support of the Mattaponi River and the Chesapeake Bay and the tribe hopes to increase the amount of fry returned to the Chesapeake Bay for the next season.

Amount granted: \$10,000.00

1467 Mattaponi Reservation Circle

West Point, VA 23181  
804-769-4508

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**Alliance for the Chesapeake Bay (Va. Restore Corps Project)**  
**Project #: 002-052**

**Plan:** The Alliance seeks funding for their Va. Restore Corps project, which is a comprehensive training and volunteer recruitment program to improve on-the-ground delivery of habitat restoration projects within the Bay watershed.

**Results:** The Alliance's 2002 James River Sojourn served as a kick-off launching point for Restore Corps. Approximately 120 volunteers participated in three featured restoration projects: Submerged Aquatic Vegetation (SAV) Planting at the James River Sojourn, BayScapes Habitat Enhancement Planting at Bandy Field Nature Park, and BayScapes Planting at Henricus Historical Park. The *Volunteer Action Days*, combined with two *Train the Trainer* sessions, and three additional BayScapes lectures reached out to approximately 225 citizens.

Amount granted: \$20,000.00

P.O. Box 1981  
Richmond, VA 23218  
804-775-0951

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**Loudoun Soil & Water Conservation District**  
**Project #: 002-060**

**Plan:** Loudoun SWCD proposes to conduct a Forests and Wildlife Corridor Workshop that will include many tree-related educational activities and the planting of 1,000 trees to create riparian buffers and wildlife corridors along streams draining to Goose Creek.

**Results:** A three-acre riparian forest and wildlife corridor was established at Banshee Reeks Nature Preserve in Loudoun County, Virginia creating a 1,500 foot stream buffer for Goose Creek, a tributary of the Chesapeake Bay. Staff from Loudoun Soil and Water Conservation District, Virginia Department of Forestry, Virginia Department of Game and Inland Fisheries, USDA-NRCS, Loudoun County Department of Building and Development and Parks and Recreation, and volunteers from the Master Gardener Program successfully conducted the Riparian Forest and Wildlife Corridor Workshop. Sixty students from Loudoun County High School and Monroe Technology Center participated in the hands-on workshop planting 1,052 trees and shrubs.

Amount granted: \$2,000.00

30-H Catocin Circle, SE

Leesburg, VA 20175  
703-777-2075, Ext. 104

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**Virginia Institute of Marine Science - College of William and Mary  
(Blue Crab Project)  
Project#: 002-070**

Plan: VIMS proposes to examine the impact of shoreline development upon the blue crab and its primary infaunal prey in "natural" and "altered" marsh creek systems to determine the loss of benthic productions and resultant loss of fishery production associated with shoreline development.

Results: The results of this study are important for management of coastal habitats in the Chesapeake Bay. The results suggest higher production of benthic biomass adjacent to natural marshes are already being incorporated by agencies considering marsh restoration as mitigation for lost ecosystem services due to human necessities. The findings produce empirical justification for the protection and restoration of wetlands from tidal freshwater to saltwater marshes, specifically with respect to benthic and fisheries production.

Amount granted: \$4,835.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7698

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**Prince William County - Department of Public Works  
(Low Impact Development)  
Project #: 002-097**

Plan: Prince William County proposes to send a selection of staff members to attend two local workshops on Low Impact Development.

Results: Two workshops on Low Impact Development have provided Prince William County staff with a more informed understanding of LID concepts and their benefit to water quality and better site design. The number of staff attending the two local workshops was lower than originally intended and; therefore, some of the funds were returned.

Amount granted: \$1,500.00

4379 Ridgewood Center Dr.  
Prince William, VA 22192  
703-792-7070

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**Page County Tree Board**  
**Project #: 003-004**

Plan: Due to drought conditions, Page County Tree Board seeks funding to replace lost tree seedlings that were planted using the funds they received in their 2000 grant.

Results: The fund helped restore the riparian buffer along the Hawksbill Creek where 3,000 trees and shrubs were planted. The Greenway has a narrow strip of trees and shrubs which protect the creek from parking lot runoff. The adjacent farm-field has an 11.5 acre buffer which reduces pollutions in the creek. The goal was reduction of excess nutrient discharge in the overall watershed.

Amount granted: \$1,000.00

101 South Court St.  
Luray, VA 22835  
540-743-4808

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**Friends of the North Fork Shenandoah River**  
**Project #: 003-040**

Plans: As in their 2002 grant application, Friends proposes nine cleanups during the year along the bottom and bank of the Shenandoah River using students and volunteers.

Results: The fund supported Clean Ups along Shenandoah River including Hudgins Rest. Landfill debris amounted to 5,960 pounds. A large town lot was also cleared of discarded refrigerators, freezers, washers, and dryers.

Amount granted: \$2,500.00

P.O. Box 746  
122 S. Commerce St.  
Woodstock, VA 22664  
540-459-8550

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**Alliance for the Chesapeake Bay  
Project #: 003-046**

Plan: The Alliance proposes to develop a habitat restoration grow-out program in order to improve aquatic ecosystems supportive of anadromous species by providing a long-term source of plant material for grassroots habitat restoration projects. This work will build on the Alliance's current "James River Submerged Aquatic Vegetation (SAV) Planting Project."

Results: The Alliance recruited over 50 volunteers from Richmond, Henrico, Charles City, Prince George, and Chesterfield to plant 2,500 shoots of submerged aquatic vegetation (SAV). Volunteers assisted in the planting effort at the US Fish and Wildlife Service's Harrison Lake Hatchery where a "donor" bed of SAV was established in order to provide plant material for future efforts in SAV habitat restoration. The plants had a high survival rate and have helped initiate additional funding to continue the work for James River restoration.

Amount granted: \$15,000.00

1612 K Street, NW #202  
Washington, DC 20006  
202-466-4634



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**Va. Institute of Marine Science  
(Coastal Habitat Restoration)  
Project #: 003-062**

Plan: The Chesapeake Bay National Estuarine Research Reserve in Virginia, managed by VIMS, seeks funding to run two, three-day teacher training courses during the summer of 2003. The theme of both trips will be restoration efforts on the York River, with a focus on oysters, submerged aquatic vegetation, and riparian buffers.

Results: Two, three-day teacher development courses were developed that would allow teachers to gain the knowledge, experience, skills, and professional contacts necessary to initiate and lead a restoration project back at their school. Seventeen teachers, including the education coordinator of the Alexandria Seaport Foundation, a new VIMS outreach and education employee, and a VIMS volunteer docent, participated in these three-day teacher development courses. The teachers did learn valuable riparian project information and proper planting techniques by working on this riparian buffer planting.

Amount granted: \$2,500.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7119

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**James River Association  
Project #: 003-089**

Plan: JRA seeks funds for expansion of their James Riverkeeper program, which will provide more citizen monitoring, better assessments of impaired waters, and direct assistance with community watershed management plans which are in fulfillment of Bay 2000 goals.

Results: Support from the Fund has been a major factor in contributing to the success of the James Riverkeeper Program. Funds allowed the James Riverkeeper to continue to be an on-the-water full-time ombudsman for the conservation and responsible stewardship of the James River and its tributaries. It allowed the James River Association to commit other funding to equipment, operations, and maintenance to support this program. The grant funds were used for physical stream monitoring, TMDL plans assessment, water quality monitoring kits and data dissemination, and education and outreach.

Amount granted: \$18,478.00

P.O. Box 909

Mechanicsville, VA 23111  
804-730-2898

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**The Friends of the Shenandoah River  
Project #: 003-094**

Plan: FSR proposes, as in their 2000 and 2001 grants, to continue with their long-term monitoring of water quality in the Shenandoah River Basin by requesting funds for a Lab Technician and supplies.

Results: The funds provided from the CBRF were utilized in operation of the FOSR water analysis laboratory. Copies of recent data reports from Augusta and Rockingham Counties show that these heavily agricultural areas contribute major portions of the sediment and nutrient problems of the river basin and the Chesapeake Bay. The summary reports of each county in the watershed have been provided to local governments, industries, wastewater treatment facilities, federal and state agencies, and associated citizen groups.

Amount granted: \$5,000.00

P.O. Box 410  
Front Royal, VA 22630  
540-635-4549

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**Virginia Save Our Streams Program  
Virginia Division of the Izaak Walton League of America  
Project #: 003-110**

Plan: As in their 97-02 applications, Virginia SOS proposes to continue to train interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring.

Results: The fund continues to support this program for the training of interested citizens in the collection of data for water quality monitoring.

Amounts granted: \$10,000.00

7598 N. Lee Highway  
Raphine, VA 24472  
540-377-6179

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**Virginia Marine Resources Commission, Conservation and Replenishment Department**  
**Project #: 004-003**

Plan: VMRC seeks funding to purchase 15,000 bushels of oyster shells to transport and construct an oyster reef on the southern branch of the Elizabeth River.

Results: The fund was combined with a NOAA FishAmerica Grant and National Fish and Wildlife Foundation Grant to build a one-half acre reef in Paradise Creek with 28,177 bushels of oyster shell. The Chesapeake Bay Foundation contributed 40,000 broodstock oysters to the Paradise Creek Reef. There are now a total of 11 reconstructed sanctuary oyster reefs in the Elizabeth River system.

Amount granted: \$20,000.00

2600 Washington Ave.  
3rd Floor  
Newport News, VA 23607-0756  
757-247-2121

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**National Audubon Society - Northern Neck Chapter**  
**Project: 004-030**

Plan: NAS proposes to restore and preserve the Chesapeake Trail, which is owned by Lancaster County, for the education and pleasure of the public. They seek funding for materials to build an educational kiosk, display materials, interpretative brochures and trail signs, and restoration of four acres of recently logged riparian forest.

Results: The funds enabled Northern Neck Audubon, in cooperation with Lancaster County, to develop an educational/nature trail on the banks of the Western Branch of the Corrotoman River. The trail is marked with 16 trail signs that denote significant plants, nature concepts, or history along the way. An overlook on the edge of the Corrotoman has observation for waterfowl, marsh and river views, and vegetation. A display kiosk at the trail entrance welcomes visitors to the trail and connects the site to the Chesapeake Bay watershed.

Amount granted: \$2,869.00

P.O. Box 991  
Kilmarnock, VA 22482  
804-435-1788

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**Audubon Naturalist Society of the Central Atlantic States, Inc.**  
**Project #: 004-034**

Plan: As in their 2003 grant application, ANS proposes to continue with their Water Quality Program in Northern Va. by developing new creative partnerships with other organizations and government agencies, train other groups to run their own monitoring programs, serve as a resource to citizens and government officials who are interested in stream conservation and water quality, and continue to monitor the health of the region's streams with the help of volunteers.

Results: The fund has enabled the Society to continue volunteer water quality monitoring and watershed education activities in Northern Virginia into a ninth year. They monitored 28 regular monitoring sites and an additional 11 sites on a one-time basis. In addition to collecting valuable data on stream health, outreach activities engaged 570 individuals in water quality education. The reach and effectiveness of water quality monitoring and watershed education efforts has expanded.

Amount granted: \$7,750.00

8940 Jones Mill Rd.  
Chevy Chase, MD 20815  
703-669-0000

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**The Friends of the Shenandoah River**  
**Project #: 004-038**

Plan: FSR proposes, as in their 2000, 2001, and 2003 grant applications, to continue with their long-term monitoring of water quality in the Shenandoah River Basin by requesting funds for a Lab Technician and supplies.

Results: The funds were utilized in operation of the FOSR water analysis laboratory. The funds were applied to chemicals, laboratory glass wear, lab personnel salaries, and instrument repair. The data has provided considerable use to the Science Team created to research the causes for the major fish kill that occurred on the North Fork Shenandoah in 2004 and on the South Fork and the Potomac in 2005.

Amount granted: \$9,000.00

P.O. Box 410  
Front Royal, VA 22630  
540-636-4948

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**Loudoun Soil and Water Conservation District**  
**Project #: 004-073**

Plan: Loudoun SWCD proposes Urban and Agricultural Riparian Workshops involving school students and agency staff in establishing riparian buffers on three acres at Reid-Smart Elementary/Middle School and on a 400 acre beef farm near Aldie. Trees, shrubs, native grasses, and legumes will be planted.

Results: Five workshops involved over 200 school students, teachers, parents, citizen volunteers, and federal, state, and local government agency staff in establishing riparian buffers at a new school site in Leesburg and on a farm near Aldie. More than eight acres were planted to establish the riparian buffers with hardwood trees, shrubs, native grasses, and legumes. Approximately 2,000 native trees and shrubs and hundreds of native grass and legumes were planted to create the riparian buffers along tributaries of the Chesapeake Bay. The workshop provided active involvement by participants to create the riparian buffers as well as an opportunity for government agency staff to teach about water quality impacts in both urban and rural watersheds.

Amount granted:       \$3,000.00

30-H Catoctin Circle, SE  
Leesburg, VA 20175  
703-777-2075, Ext. 104

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**Monacan Soil and Water Conservation District (Fertilizer BMP Labeling)  
Project #: 004-078**

Plan: Monacan SWCD has worked with DEQ and Southern States Cooperative (SCC) to develop a label relating to fertilization BMPs. SCC has incorporated the label into their packaging label for bag fertilizer distribution from their Va. Beach processing plant. Monacan's goal is to expand the fertilizer BMP labeling program to major and local brand bag fertilizer distributors within the basin.

Results: Funds from this grant were used to support the efforts of staff members from multiple local Soil and Water Conservation Districts to make contact with fertilizer manufacturers to encourage participation in a labeling program and educate them on the effects on the Chesapeake Bay. An outreach letter was developed and distributed to make an initial contact with the companies. District staff coordinated and promoted the labeling program through a variety of contacts. Grant funds were used to cover the travel, communications, and staff resources to facilitate these meetings.

Amount granted:      \$6,700.00

P.O. Box 66  
Goochland, VA 23063  
804-556-4936

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**Potomac Conservancy, Inc.**  
**Project #: 004-085**

Plan: To continue with their 2002 and 2003 grant applications, the Potomac Conservancy proposes for its "Potomac Watershed Restoration and Protection Project" to promote innovative solutions that engage individuals in hands-on efforts to restore valuable riparian forest and create rain gardens that filter runoff and reduce nutrient pollution at several public land sites.

Results: The fund has supported "Potomac Watershed Restoration and Protection Project" helping to enhance riparian habitat and water quality at multiple sites in the Potomac watershed through a combined approach of riparian reforestation, bioretention techniques to protect water quality, and community outreach and education to promote watershed stewardship. In 2004-2005, the project engaged more than 300 volunteers in hands-on environmental education and restoration activities, resulting in hundreds of hours of community service. The volunteers planted 1,460 trees along key Potomac River tributaries in Virginia and established a native hardwood tree nursery at Waples Mill Elementary School in Fairfax.

Amount granted: \$15,000.00

8601 Georgia Ave., Suite 612  
Silver Spring, MD 20910  
301-608-1188

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**Alliance for the Chesapeake Bay (Va. Restore Corps)  
Project #: 004-101**

Plan: As in their 2002 grant application, the Alliance seeks continued funding for their Va. Restore Corps project. They will work with three to four organizations focusing on invasive plant control, habitat restoration, and public education through training sessions and action days.

Results: The funds helped the Alliance work with various community partners to mobilize volunteers and accelerate on-the-ground restoration projects within the Chesapeake Bay watershed. The Alliance continued to expand its already very successful *Virginia Restore Corps* initiative through this funding period and empower and educate citizens of the Bay watershed to take an active role in habitat restoration and land stewardship. The Alliance established an SAV grow-out station at Harrison Lake National Fish Hatchery for community-based restoration projects, replaced invasive species with native trees and shrubs in Bandy Field, and held a *BayScapes* and Invasive Plant Workshop and volunteer action day at Occoquan National Wildlife Refuge.

Amount granted: \$16,000.00

P.O. Box 1981  
Richmond, VA 23219  
804-775-0951

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**The Poquoson Historical & Cultural Museum Foundation  
Project #: 005-012**

Plan: The Poquoson Museum seeks funding to restore the Topping Creek marsh that borders the Museum's Dryden Farm via the removal of abandoned equipment and waste and install a trail and boardwalk to enable visitors to learn about the wetland habitat.

Results: Work has begun to restore the Topping Creek marsh that borders the Museum's Dryden Farm, via the removal of abandoned equipment and waste, and install a trail and boardwalk to enable visitors to learn about the wetland habitat and Poquoson "way of life" of a small fishing village near the Chesapeake Bay. When completed, the "Marsh Walk" will allow amateur and professional study of flora and fauna found on the Chesapeake Bay fringes and practical demonstrations of watermen skills and activities.

Amount granted: \$30,000.00

P.O. Box 2163  
Poquoson, VA 23662



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**Virginia Save Our Streams Program  
Virginia Division of the Izaak Walton League of America  
Project #: 005-025**

**Plan:** As in their 97-04 grant applications, Virginia SOS proposes to continue to train interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring. They seek funding for general outreach efforts, data management, and quality assurance measures.

**Results:** The fund provided for the continuation of Virginia SOS program which trains interested citizens to use a scientifically valid method of water quality monitoring. Citizens are encouraged to work on a watershed basis. Stimulating local interest and knowledge of watershed conditions enabled a positive and meaningful vehicle for citizen stewardship.

Amount granted: \$10,000.00

P.O. Box 8297  
Richmond, VA 23226  
804-615-5036

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**Friends of Stafford Creeks  
Project #: 005-027**

**Plan:** FSC proposes to establish and operate 13 water quality monitoring sites divided between four major Stafford County watersheds, while developing volunteer and citizen awareness of the importance of water quality, and the dissemination of two informative brochures or fact sheets to residences on Stafford's tidal waters.

**Results:** The grant has allowed Friends of Stafford Creeks to reach many constituencies. Baseline data for 10 Stafford sites have been added to the pool of information. Elected leaders and citizen leaders will learn of the work conducted under the grant and its relevance to water quality in Stafford as well as the Chesapeake Bay. Neighbors who live on tidal waters have been made aware of the importance that buffers play in cleaning runoff. Finally, students have learned about the importance of submerged aquatic vegetation to clean water in Stafford's tributaries.

Amount granted: \$5,000.00

38 Dobe Point Rd.  
Stafford, VA 22554  
540-657-6674

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**Audubon Naturalist Society of the Central Atlantic States, Inc.**  
**Project #: 005-028**

Plan: As in their 2003 and 2004 grant applications, ANS proposes to continue with their Water Quality Program in Northern Virginia by developing new creative partnerships with other organizations and government agencies, train other groups to run their own monitoring programs, serve as a resource to citizens and government officials who are interested in stream conservation and water quality, and continue to monitor the health of the region's streams with the help of volunteers.

Results: The fund has been able to provide water quality stewardship and educational opportunities to residents throughout Northern Virginia into their tenth year. The longevity of the program gives a clear understanding of trends in local stream health and has generated knowledgeable volunteers who have become active in other aspects of water quality and stream protection. During this period, volunteers have collected water quality data at 30 regular monitoring sites in the region plus three additional sites on a one-time basis. Data is being submitted to state and local government agencies for use in water quality assessment. Stream walks, slide presentations, and other watershed outreach and education activities have reached about 900 residents in the region.

Amount granted:       \$8,950.00

8940 Jones Mill Rd.  
Chevy Chase, MD 20815  
703-669-0000

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**Loudoun Wildlife Conservancy  
Project #: 005-037**

Plan: LWC will collaborate with Loudoun Watershed Watch to develop and implement a two-part community-based program in support of the Catoctin Creek Total Maximum Daily Load Implementation Plan. The stewardship activities would include citizen stream monitoring to develop water quality data to assess the effectiveness of the IP.

Results: The year 2005-2006 was a successful year for the Catoctin Watershed project in support of Loudoun County efforts to restore good water quality in the Catoctin watershed. Benthic macroinvertebrate rate monitoring continued and allowed LWC to recommend several new areas for impairments to DEQ. The new bacteria stream monitoring program was begun to provide a baseline and yearly assessment of progress in the Catoctin Creek Total Maximum Daily Load Implementation Plan (TMDL). Community education and stewardship projects were organized along with the monitoring programs, which kept volunteers busy as well as brought in new volunteers for these important community projects. These activities helped to bring community attention to the TMDL and to maintain citizen involvement in the TMDL implementation process.

Amount granted: \$6,600.00

P.O. Box 2088  
Purcellville, VA 20134  
703-430-4180

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**Tidewater Oyster Gardeners Association  
Project #: 005-050**

Plan: TOGA proposes to determine if oyster floats located in relatively high density in a tributary of the Piankatank River impacts the settlement rate of oyster spat. Queens Creek will serve as the experimental creek and Cobbs Creek will serve as the control creek. They seek funds for supplies and educational efforts.

Results: Thirty-nine households on two creeks of the Piankatank River participated in the project. Twenty thousand one-year old oysters in 40 floats were placed at piers and docks on one creek and 40 shell bags were placed at piers and docks, 20 on each creek, to collect spat. Spat set was similar between the two creeks. The conclusion from the study was that the two creeks are significantly different. Queens Creek may flush more efficiently than Cobbs Creek, thus washing swimming oyster larvae out of the Creek into the Piankatank River.

Amount granted: \$3,320.00

8218 Hell Neck Rd.

Gloucester, VA 23061-2528  
804-642-6507

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**Va. Tech - Eastern Shore Agricultural Research and Extension Center (Plasticulture)  
Project #: 005-054**

Plan: As in their 1997, 1998, and 2001 grant applications on tomato industries, the Center proposes to modify between-bed management strategies to reduce sediment loss without interfering with standard production practices. Management strategies will facilitate weed control, protect water quality from nonpoint sources of water pollution, prevent toxic substances from entering the Bay and its tributaries, and protect tidal fishery habitats.

Results: The study "Modification of Plasticulture Management Strategies for Sediment Reduction" was funded by the CBRF. The study was to compare effectiveness of seeding method (broadcast vs. drop-seeded) between plasticulture beds on runoff quantity and total sediment movement. The data collected did indicate that the seeding method did not impact the sediment and runoff yield. A second result of this study showed that seeding rates, ranging from 30 to 90 lb/ac, did not impact the amount of grass biomass produced. Benefits of this short-term study include encouraging results about narrower grass strips between plasticulture beds reducing sediment yield, as well as information on how to sample runoff from plasticulture plots.

Amount granted: \$12,000.00

33446 Research Dr.  
Painter, VA 23420  
757-414-0724, Ext. 12

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**Va. Tech - Eastern Shore Agricultural Research and Extension Center  
(Tributary Strategy)  
Project #: 005-055**

Plan: As in their 2001 and 2002 grant applications, the Center proposes to collect data in the Lower James River Planning Unit to quantify sediment loss and soil nutrient runoff and leaching from conventionally-tilled, low-tilled, and no-tilled agricultural fields in the Bay and use the data to develop educational materials and programs. They seek funding for one support person to perform nitrogen, phosphorus, and sediment loss analyses.

Results: The objectives of this study were to quantify the potential leaching losses of NO<sub>3</sub>-N from crop production soils of the Coastal Plain of Virginia and determine if leaching differs between no-till v. rotational-till managed fields. Since there was only 16 months of leaching data and the two-year crop rotation is out of phase between locations, it is not possible to conduct rigorous statistical analysis of the data at this time. Water samples will continue to be collected at both sites and a rigorous statistical analysis of the data will allow the effects of tillage and phase of the crop rotation on NO<sub>3</sub>-N concentration and mass loss in leachate.

Amount granted: \$11,500.00

33446 Research Dr.  
Painter, VA 23420  
757-414-0724, Ext. 16

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**Friends of the Shenandoah River  
Project #: 005-065**

Plan: FSR proposes, as in their 00-04 grant applications, to continue with their long-term monitoring of water quality in the Shenandoah River Basin by requesting funds for a Lab Technician, Graduate Student Lab Assistant, lab chemicals, and supplies for monitors.

Results: The fund provides a continuation of the long-term monitoring of water quality in the Shenandoah River Basin by utilization of funds for the operation of the FOSR water analysis laboratory.

Amount granted: \$13,000.00

P.O. Box 410  
Front Royal, VA 22630  
540-636-4948

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**Lake Anna Civic Association  
Project #: 005-071**

Plan: LACA proposes to continue to expand the implementation of a locally supported watershed management plan for the Lake Anna watershed. They seek partial funding for an environmental research project from the staff at Mary Washington College, administrative support for the Lake Anna Watershed Roundtable and Academic Advisory Council, an electronic water quality monitoring instrument along with calibration and laboratory supplies, and various activities associated with the implementation of a watershed management plan.

Results: One of the major projects by LACA is routine monitoring of water quality in the lake from April to October, in conjunction with DEQ, to determine the extent to which E. coli and nutrients such as Total Phosphates are washed into the lake from the 11 impaired tributaries. The other major project is the effort to determine the extent and sources of polychlorinated biphenyls (PCBs) which have put the entire lake on the 303(d) list and Va. Dept. of Health has issued an advisory on consumption of fish in the lake. The fund has been used to support the water quality monitoring of the lake.

Amount granted:       \$2,500.00

P.O. Box 217  
Mineral, VA 23117-0217  
703-250-4239

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**James River Association**  
**Project #: 005-072**

Plan: As in their 2003 grant application, JRA seeks funds to continue the expansion for their "James Riverkeeper." This individual will provide more citizen monitoring, better assessments of impaired waters, reduced sediment loads, and direct assistance with community watershed management plans.

Results: The James River Association's James RiverKeeper program provides a constant vigil on America's Founding River by monitoring its conditions, identifying and responding to problems, and ensuring that solutions are developed and executed properly. Through the fund's generous support, the program has continued its efforts to assess the River's designated impaired waters, worked with volunteers to monitor water quality, responded to critical incidents on the River, and communicated to communities throughout the watershed the need for a clean and healthy river.

Amount granted: \$21,125.00

P.O. Box 909  
Mechanicsville, VA 23111  
804-730-2898

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**Rivanna Conservation Society**  
**Project #: 005-076**

Plan: RCS proposes for the "StreamWatch" program to certify eight Va. Save Our Streams volunteer stream monitors, expand the number of sampling sites and develop a rotating sampling schedule, make eight presentations to local decision-making bodies, and publish their second community report.

Results: The grant helped fund the StreamWatch FY 2006 general program budget. The goal stated in the grant request was to "build on our initial success by expanding and improving our monitoring efforts, by making direct contact with decision makers, and by publishing the second report to the community." The key finding is that serious biological degradation occurs in Rivanna Basin streams at much lower levels of watershed disturbance than general models predict. The upcoming report will provide important information to planners, elected decision makers, and the community at large.

Amount granted: \$12,000.00

P.O. Box 1501  
Charlottesville, VA 22902

**Tidewater Resource Conservation and Development Council  
Project #: 005-079**

Plan: RC&D proposes to increase the knowledge about the tributaries of the Bay and generate wider concern for the Bay's health through greater volunteer participation in water monitoring activities in Westmoreland, Richmond, Northumberland, and Lancaster counties.

Results: Through quality assurance/quality control, 20 volunteer monitors were trained or recertified to perform and produce meaningful data that was entered on the website of the Alliance for the Chesapeake Bay. Supplies were obtained to replenish the monitoring kits of the volunteers. Additional supplies were purchased with grant funds for Coliscan kits to monitor coliform bacteria in two creeks. Grant funds were expended to accomplish a number of tasks outlined in the initial proposal.

Amount granted: \$20,000.00

772 Richmond Beach Rd.  
Tappahannock, VA 22560  
804-443-1118

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**Friends of Chesterfield's Riverfront  
Project #: 005-081**

Plan: Friends proposes to maintain and expand the existing water monitoring program with Alliance for the Chesapeake Bay (ACB), educate citizens about water quality issues through lawn care seminars in partnership with the Chesterfield Cooperative Extension, and integrate water monitoring opportunities and data in the Chesterfield County Public Schools' classrooms by offering teacher training in partnership with the Chesterfield Office of Water Quality.

Results: During the grant period, Friends of Chesterfield's Riverfront (Friends) worked with the Alliance for the Chesapeake Bay to sustain the citizen monitoring program. The project allowed for the stabilization and expansion of opportunities for water quality outreach and education in Chesterfield County. Opportunities for water quality outreach and education can be divided into three categories from this grant: Citizen Water Monitoring, Community Lawn Care Seminars, and Teacher Training for Water Monitoring and Use of Local Data.

Amount granted: \$8,000.00

P.O. Box 2158  
Chesterfield, VA 23832  
804-796-1703



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**Northern Neck Land Conservancy**  
**Project #: 006-007**

Plan: NNLC proposes for their "Conservation Tools for Responsible Stewardship" project to identify opportunities for shoreline restoration and conservation of their Bay watershed. NNLC will also provide landowners and the public the tools and information to assist in sound land use planning and protection of critical habitats. They seek funding for consultants, a digital camera, color copier/printer, seminar speakers, publication/distribution of a Best Management Practices Guide, transportation, and long distance telephone calls.

Results: The fund supported the NNLC "Conservation Tools for Responsible Stewardship" project by establishing three primary objectives: researching and identifying conservation opportunities using mapping techniques; planning and developing education and outreach activities through NNLC volunteers; identifying land use and zoning conflicts; implementing education and outreach activities by holding two public meetings; and publishing and selected mailing of a Best Management Practices Guide. The conservancy held two seminars that were open to the public and reached about 300 people, printed 2,000 copies of its Best Management Practices booklet "Protecting Your Investment and Our Heritage," and has distributed 1,200 of these booklets.

Amount granted:       \$14,700.00

P.O. Box 3  
Kilmarnock, VA 22482  
804-435-2814

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**Earth Sangha**  
**Project #: 006-012**

Plan: Earth Sangha seeks funding to expand their wild plant nursery to better serve Fairfax County in implementing a county-wide riparian zone restoration program. Their role will be to design and organize the plantings.

Results: The grant helped expand production of native riparian species at the Wild Plant Nursery, a community nursery specializing in local ecotype native plant production. The principal goal of the nursery was to contribute stock to the Fairfax County stream buffer restoration program. Support from the fund was used to increase woody plant inventory from about 5,000 to about 10,000 pots, increase riparian herbaceous (non-woody) plant volume from 430 square feet of raised bed space to 860 square feet, and expand the number of riparian species in propagation from 29 to 86. The improvement would double minimum contribution to the county's buffer restoration program from about 250 to 500 plants per year.

Amount granted: \$10,000.00

10123 Commonwealth Blvd.  
Fairfax, VA 22032-2707  
703-764-4830

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**Friends of the Shenandoah River**  
**Project #: 006-014**

Plan: FSR proposes, as in their 00-05 grant applications, to continue with their long-term monitoring of water quality in the Shenandoah River Basin by requesting funds for a Lab Technician, lab chemicals, and supplies for monitors.

Results: The grant provides funds for the FSR to continue their long-term monitoring of water quality in the Shenandoah River Basin. FSR continues to explore the extent and nature of the river's problems, discussing the causes of the pollution, describing corrective measures needed, and listing the factors that help or hinder their efforts.

Amount granted: \$15,000.00

P.O. Box 410  
Front Royal, VA 22630  
540-665-1286 or 540-635-4549

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**Interstate Commission on the Potomac River Basin  
Project #: 006-034**

Plan: As in their 1997, 2000, and 2001 grant applications, ICPRB proposes to continue with the restoration of the American shad populations to the Rappahannock and Potomac Rivers and enlist approximately 10 northern Va. schools in the effort, which also includes five field trips on their vessel the "Half Shell."

Results: Support from the fund made it possible for the schools to participate in a widely heralded program of American shad restoration in the greater Washington area. Six Virginia schools successfully released 8,500 American shad fry as part of a shad restoration program for the Potomac and Rappahannock Rivers. Over 400 students hatched and raised the shad fry in their classrooms. The students and their teachers also educated hundreds of additional students and their parents on the values of restoring this important fish to the Potomac River and Chesapeake Bay.

Amount granted: \$15,000.00

51 Monroe St., Suite PE-08  
Rockville, MD 20850  
301-984-1908, Ext. 106

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**Virginia Save Our Streams Program -  
Virginia Division of the Izaak Walton League of America  
Project #: 006-038**

Plan: As in their 97-05 grant applications, VA SOS proposes to continue to train interested citizens to be volunteer water quality monitors using an established biological method of monitoring. They will also provide on their website general information on water resources in Va. and water quality monitoring and data.

Results: The grant provides for the continuation of the VA SOS efforts to train interested citizens to use a scientifically valid method of water quality monitoring. Volunteers collect data which state agencies need to supplement their own data.

Amount granted: \$5,000.00

P.O. Box 8297  
Richmond, VA 23226  
804-615-5036

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**Loudoun Wildlife Conservancy**  
**Project #: 006-047**

Plan: As in their 2005 grant application, LWC proposes to continue to collaborate with Loudoun Watershed Watch to develop and implement a two-part community-based program in support of the Catoctin Creek Total Maximum Daily Load Implementation Plan. The stewardship activities would include citizen stream monitoring to develop water quality data to assess the effectiveness of the IP. The grant funds requested also include support for a Citizen Monitoring Program Coordinator position.

Results: The project engaged citizens on water quality issues from two different perspectives, from the habitat side with emphasis on stream monitoring and from the wildlife side with the emphasis on amphibians, which require both clean water and healthy tracks of forests to survive. The first 10 years of monitoring centered on benthic macroinvertebrates. In 2006, the program was expanded to include bacteriological monitoring. Loudoun Wildlife Conservancy successfully created and published the program materials and publicity materials; trained and engaged over 50 volunteers; and gathered a solid baseline of data that served as a good jumping-off point to continue this program.

Amount granted:      \$6,130.00

P.O. Box 2088  
Purcellville, VA 20134  
540-882-4839

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**James River Association**  
**Project #: 006-055**

Plan: As in their 2003 and 2005 grant applications, JRA seeks funds to continue the expansion for their "James Riverkeeper." New for 2006, their project "More Fish in the James" will include developing outreach activities and materials for fishing groups, a website containing a James River "blog," increased algae monitoring, development of a sturgeon restoration plan, and implementation of a sediment monitoring program.

Results: During the grant period, the James Riverkeeper, using his established community involvement and expertise, continued to perform his core duties of monitoring river conditions, responding to problems, and seeking solutions to them. In support of the James River Tributary Strategy's ambitious goals to reduce nutrient and sediment pollution in the river, the James Riverkeeper established the "More Fish in the James" project to help ensure that the water quality in the river is sufficient to support the protection and propagation of fish. Activities in the program included the development of a James River "blog," developing outreach materials and activities for fishermen, increasing algae monitoring, development of an Atlantic sturgeon restoration plan, and development of a sediment monitoring program.

Amount granted:       \$16,500.00

P.O. Box 909  
Mechanicsville, VA 23111  
804-730-2898

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**Hopewell Regional Wastewater Treatment Facility**  
**Project #: 006-073**

Plan: As in their 02-05 grant applications, HRWTF proposes to expand their submerged aquatic vegetation (SAV) transplanting efforts conducted in the James River during 1999-2005, continue to enlarge and expand existing SAV plots in four regions of the river, plant additional sites up river toward Richmond and down river toward the Chickahominy by scattering seeds along the river margins, monitor the sites for water quality and SAV growth and survival, and conduct measurements of water quality from the Chickahominy River to Richmond using a DATAFLOW sampler.

Results: Wild celery shoots, seeds, and intact seed pods with seeds were transplanted into four sites in the Hopewell region of the Tidal James River. The SAV transplants were sampled by the Virginia Institute of Marine Science (VIMS) for survivorship and growth throughout the growing season. SAV transplant growth and survival occurred at all James River field sites at depths of approximately 0.4 m below low water. Overall, the success of the SAV restoration in the Tidal Freshwater James River is encouraging.

Amount granted: \$10,000.00

P.O. Box 969  
Hopewell, VA 23860  
804-541-2214

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**Lake Anna Civic Association**  
**Project #: 006-079**

Plan: To continue with their water quality monitoring program, LACA seeks funding to cover the cost of laboratory analyses of four sets of water samples.

Results: The grant funds provide the continuation of the monitoring of the water quality in Lake Anna. Forty-six volunteers attended every refresher training program held before each monitoring and participated in the monitoring with their pontoon boats. The major program, in conjunction with the DEQ, is finding the source of polychlorinated biphenyls (PCBs) that have put all of Lake Anna on the impaired 303(d) list and caused VDH to issue a fish consumption advisory.

Amount granted: \$3,200.00

P.O. Box 217  
Mineral, VA 23117-0217  
804-379-9070

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**Deltaville Maritime Museum and Holly Point Nature Park**  
**Project #: 007-009**

Plan: The Museum seeks funding for Phase One of their Holly Point Creek Front Restoration Project. The Project will clean the shoreline of overgrown vegetation, plant native plants, restore and protect the wetlands, and build a boardwalk connecting the existing piers to provide a handicapped-accessible viewing area of the waterfront, benches, and educational markers on the restoration work and identify native wildlife.

Results: The museum and park project has successfully restored waterfront property through a Living Shoreline and a Buffer Zone demonstration garden. The Living Shoreline offered an alternative to conventional hardscape shoreline erosion practices with the use of planting bio logs and grasses. The riparian buffer was planted with native plants that offered phenomenal benefits. Both sites serve as educational areas to foster the benefits of healthy buffer areas for reduction of erosion, increased shoreline stability, benefits to wildlife, and improved air and water quality for the Chesapeake Bay.

Amount granted: \$10,500.00

287 Jackson Creek Rd.  
P.O. Box 466  
Deltaville, VA 23043  
804-776-6950

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**Mattaponi Heritage Foundation**  
**Project #: 007-025**

Plan: As in their 02-06 grant applications, the Foundation requests additional funding for their shad hatchery, which includes two Sun Mar composting toilets, ongoing training of staff and new volunteers, and supplies and fish to continue the roe and sperm for the 2007 season. They also seek funding for additional construction to the underside of the hatchery to protect plumbing from large debris.

Results: The grant continued supporting the state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility, completing its eighth year of operation. More than three million fry were hatched and returned back to the Mattaponi River. The hatchery housed a water quality monitoring laboratory to monitor the health of the river and hosted numerous educational tours for groups interested in the operations facility.

Amount granted: \$9,000.00

1467 Mattaponi Reservation Circle

West Point, VA 23181  
804-769-4508

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**James River Association  
Project #: 007-026**

**Plan:** As in their 2003, 2005, and 2006 grant applications, JRA seeks funds to continue the expansion for their "James Riverkeeper." New for 2007, their project "Snapshot of the James" will identify two specific days that all citizen water monitors in the James River watershed will be asked to test their specific site in order to raise public awareness of the condition of the James River and its tributaries and build citizen support for needed practices to combat polluted runoff.

**Results:** The Association's Riverkeeper Snapshot of the James program provided an in-depth look at the health of the James River during two separate periods. The James Riverkeeper and numerous volunteer monitors highlighted the effects of polluted stormwater runoff, or the lack thereof, on the river and the necessity to control this source of pollution. JRA has been able to raise awareness throughout the watershed and the Commonwealth of the need to adequately address stormwater runoff increased by developmental pressure in the area as a result of this grant.

Amount granted: \$17,000.00

P.O. Box 909  
Mechanicsville, VA 23111  
804-730-2898

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**Friends of the Shenandoah River  
Project #: 007-035**

**Plan:** FSR proposes, as in their 00-06 grant applications, to continue with their long-term monitoring of water quality in the Shenandoah River Basin by requesting funds for a Lab Technician, lab chemicals, and supplies for monitors.

**Results:** The fish fauna of the Shenandoah River has experienced several acute increases in the death rate of some species called "fish-kills." Arsenic was identified as a suspect toxin. The FOSR volunteer monitoring database was a source of information in this inquiry. Though no conclusions can be drawn from the fish kill data alone, the support of the fund helped with incremental additions to the body of knowledge about the effects of contamination of water in the Shenandoah Valley.

Amount granted: \$9,000.00

P.O. Box 410  
Front Royal, VA 22630  
540-665-1286 or 540-635-4549



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**The Northern Virginia Conservation Trust**  
**Project #: 007-037**

Plan: NVCT proposes in 2007 to begin systematic restoration work on five fee simple properties and seven easement properties protected by NVCT. Their goals are to improve the environmental quality of the riparian zones and therefore improve wildlife habitat and downstream water quality. They seek funding for supplies and trees.

Results: The project goal was to conduct invasive species removals and tree plantings on twelve properties, using a mixture of mature plants from two local nurseries and seedlings from the Virginia Department of Forestry. The restoration achieved 113 percent of the planting goals for nursery trees and shrubs, worked in 75 percent of intended locations, and directly benefited four additional protected properties by conducting restoration work in adjacent parks. NVCT will have planted 229 nursery trees and shrubs, 170 Department of Forestry seedlings, and conducted invasive removals on nine properties.

Amount granted: \$14,000.00

4022 Hummer Rd.  
Annandale, VA 22003  
703-354-5093

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**Lake Anna Civic Association**  
**Project #: 007-052**

Plan: To continue with their water quality monitoring program, LACA seeks partial funding to cover the cost of laboratory analyses.

Results: The fund provided the continuation of water monitoring in the lake.

Amount granted: \$3,000.00

P.O. Box 217  
Mineral, VA 23117-0217  
804-379-9070

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**Virginia Save Our Streams Program - Virginia Division of the Izaak Walton League  
Project #: 007-082**

Plan: As in their 97-06 grant applications, VA SOS proposes to continue to train interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring. They will also provide on their website general information on water resources in Va. and water quality monitoring and data.

Results: The project is a continuation of training for interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring. They have trained volunteers in 86 small watersheds covering 38 counties and cities in Virginia.

Amount granted: \$8,126.00

P.O. Box 8297  
Richmond, VA 23226  
804-615-5036

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**Alliance for the Chesapeake Bay  
Project #: 007-091**

Plan: The Alliance proposes to increase volunteer water quality monitoring in the Bay tributaries through strategic planning, training, and capacity building. They seek funding for personnel, travel, supplies and materials, and contractual services.

Results: With funding from this CBRF grant, the Alliance has worked to increase volunteer water quality monitoring in Virginia's portion of the Chesapeake Bay watershed through its *RiverTrends* program. This was achieved by working with three watershed groups to establish or improve their water quality monitoring programs. As a result, 33 monitors were trained or recertified and two watershed coordinators were certified through their Train-the-Trainer workshop. Now more streams across the Virginia portion of the Chesapeake Bay watershed are being monitored and the data is collected through the Alliance's long-term database and submitted to the Virginia Department of Environmental Quality to help them assess the quality of Virginia's streams.

Amount granted: \$29,000.00

530 E. Main St., Suite 501  
Richmond, VA 23219  
775-0951

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**Friends of Stafford Creeks  
Project #: 007-101**

Plan: As in their 2005 grant application, FSC proposes to continue to establish and operate 10 water quality monitoring sites divided between three major Stafford County watersheds, while developing volunteer and citizen awareness of the importance of water quality. New for 2007, they will establish a website to showcase monitoring information, SAV surveys, and other information consistent with organization's objectives.

Results: The grant has allowed Friends of Stafford Creeks to reach many constituencies. The monitors have become more informed and better spokespersons for clean water, while supporting the Department of Environmental Quality's identification of impaired waters. Baseline data for 10 plus Stafford sites have been added to the pool of information. Elected leaders and community leaders have learned of the work conducted under this grant and its relevance to the water quality in Stafford as well as the Chesapeake Bay.

Amount granted: \$3,222.00

38 Dobe Point Rd.  
Stafford, VA 22554  
540-657-6674

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**Hoffler Creek Wildlife Foundation  
Project #: 007-104**

Plan: Hoffler Creek proposes a program "Changing the Tides," which focuses on water quality in Hoffler Creek as a microcosm of the Bay. They seek funding to purchase equipment, materials, and supplies.

Results: The *Changing of Tides* project provided new opportunities for families to acquire scientific information to explore wildlife in the wetlands and to participate in activities that contribute to the conservation and restoration of the natural resources of the Chesapeake Bay watershed. Work products include a program of recreational and educational kayaking on Hoffler Creek, children's programs concentrated on "creek critters," and major conservation and restoration projects at the preserve.

Amount granted: \$6,770.00

4510 Twin Pines Rd.  
Portsmouth, VA 23703  
757-483-6838

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**Tidewater Oyster Gardeners Association**  
**Project #: 008-007**

Plan: TOGO proposes to update the data recorded in their 2007 pilot salinity mapping program and expand the survey to include 12 more volunteers and shoreline segments. They seek funding for 12 hand-held GPS receivers and refractometers, reimbursement for volunteer boat gas, publishing of a newsletter three times, an oyster fair, and a portion of expenses for Master Oyster Gardener Course, 2008.

Results: The Association surveyed as much of the Tidewater Virginia region as possible to determine the location, number, and salinity at oyster garden sites. TOGA found approximately 290 visible oyster gardens in the areas searched. The locations and salinities, along with 160 salinities of other points, were mapped.

Amount granted: \$6,060.00

8218 Hell Neck Rd.  
Gloucester, VA 23061-2528  
804-642-6764

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**John Marshall Soil and Water Conservation District**  
**Project #: 008-028**

Plan: John Marshall SWCD proposes to collect chemical data on the eight tributaries of the Rappahannock that they have been collecting macroinvertebrate data, use the data as a baseline to compare effectiveness of BMPs currently being installed in the watershed, compare differences between impaired and non-impaired streams, and maintain the ability to assist with and expand water monitoring activities for local schools working on watershed experiences. They seek funding for testing supplies.

Results: The District collected water quality data on eight streams in Fauquier County. In addition to monthly monitoring, supplies purchased with the grant were also used for educational purposes in elementary and high school classes. Over 700 students participated in Field Days and Farm Tours sponsored by the District that included stations on water quality and water testing.

Amount granted: \$937.00

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186-2849  
540-347-3120, ext. 3

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**Thomas Jefferson Soil and Water Conservation District  
Project #: 008-029**

Plan: Thomas Jefferson SWCD requests funding for their "Goldmine Creek Clean-Up Project" to repair or replace septic systems and hire an intern to provide outreach and education regarding the many potential management strategies within the watershed. Additional intern hours and sampling supplies will enable more sites to be sampled with greater accuracy and volunteers to be recruited for follow-up monitoring to be done after restoration activities have been installed.

Results: With partial funding from the CBRF, the District conducted the Gold Mine Creek Clean-Up project. The project consisted of water testing for bacterial impairments, outreach, and assistance to homeowners in repairing or replacing failing septic systems. Eight failing septic systems were repaired or replaced.

Amount granted: \$19,748.00

2134 Berkmar Dr.  
Charlottesville, VA 22901  
434-975-0224

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**Interstate Commission on the Potomac River Basin  
Project #: 008-030**

Plan: As in their 1997, 2000, 2001, 2006, and 2007 grant applications, ICPRB proposes to continue with the restoration of the American shad populations to the Rappahannock and Potomac Rivers and enlist approximately 10 northern Va. schools in the effort, which also includes five field trips on their vessel the "Half Shell."

Results: This is a continuation of the restoration of the American shad populations to the Rappahannock and Potomac Rivers. Over 500 elementary and middle school students and 14 teachers from nine Northern Virginia schools hatched and raised American shad fry in their classrooms, releasing approximately 22,737 to help restore the Potomac and Rappahannock Rivers. Eighty-eight students spent a day on the Potomac River on board Living Classroom's educational vessel the "Half Shell," a historic Chesapeake Bay buyboat, learning firsthand about the ecological, cultural, and historic importance of shad and bay environments.

Amount granted: \$18,500.00

51 Monroe St., Suite PE-08  
Rockville, MD 20850  
301-984-1908, Ext. 106

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**Lake Anna Civic Association  
Project #: 008-031**

Plan: To continue with their water quality monitoring program, LACA seeks partial funding to cover the cost of laboratory analyses.

Results: LACA continued their water quality monitoring program and used the fund for partial funding covering the cost of laboratory analyses.

Amount granted: \$3,000.00

P.O. Box 217  
Mineral, VA 23117-0217  
804-379-9070

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**Friends of Norfolk's Environment, Inc.  
Project #: 008-032**

Plan: Friends proposes to continue with their Knitting Mill Creek project by removing the remaining 40 linear feet of concrete riprap along the north shore of the wetland, regrading the shoreline, and replanting with upland shrubs. They will also restore 800 square feet of badly eroded wetland soil so it can support the healthy growth of Spartina grass.

Results: The project accomplished several goals: it converted a 40 linear foot bank of concrete debris into a "living shoreline" of high marsh plants; restored 1,500 square feet of eroded intertidal soil and replanted it with *Spartina alterniflora*; established a maintenance, pruning, and clean-up plan to assure long-term protection of the investment; and presented a workshop within the City of Norfolk's Neighborhood University designed to encourage and mentor other communities to become stewards of the wetlands in their areas.

Amount granted: \$2,417.00

3500 Granby St.  
Norfolk, VA 23504  
757-441-1347

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**Virginia Save Our Streams Program - Virginia Division of the Izaak Walton League  
Project #: 008-041**

Plan: As in their 97-07 grant applications, VA SOS proposes to continue to train interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring. They will also provide on their website general information on water resources in Va. and water quality monitoring and data.

Results: This is a continuation of the program to train interested citizens to be volunteer water quality monitors using a biological method of monitoring. By stimulating local interest and knowledge of watershed conditions, VA SOS is creating a positive and meaningful vehicle for citizen stewardship.

Amount granted: \$12,000.00

P.O. Box 8297  
Richmond, VA 23226  
804-615-5036

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**Friends of the Shenandoah River  
Project #: 008-064**

Plan: FOSR proposes, as in their 00-07 grant applications, to continue with their long-term monitoring of water quality in the Shenandoah River Basin. New for this year, the project will be focused on the creation of a program to utilize FOSR's present monitoring activities to measure background levels of arsenic utilizing new laboratory equipment provided by the license plate funds in 2007. The project will also involve the use of a supplemental sampling effort designed to collect surface water samples immediately following major storm events at sites identified as being potential sources of poultry litter runoff.

Results: The grant application is to continue long-term monitoring of water quality in the Shenandoah River Basin with a new focus on measuring background levels of arsenic utilizing new laboratory equipment provided by the fund.

Amount granted: \$12,178.00

1460 University Dr.  
Gregory Hall  
Winchester, VA 22601  
540-665-1286

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**James River Association  
Project #: 008-072**

Plan: JRA proposes for their "James River Watershed Experience" project to engage students in Amelia County and Hopewell Public Schools in active explorations within their own watersheds. They will research their local sections of the James River and/or its tributaries, test water quality through chemical and biological means, and explore the unique ecology of the watershed and the Bay.

Results: The grant allowed the James River Association's *James River Watershed Experience* program to bring meaningful watershed experiences to teachers and students as outlined in the *Chesapeake 2000 Agreement*. A total of 21 teachers and over 1,200 students in Virginia directly benefited from this grant during the second year of this program and three school districts have established, or begun to establish, sustainable programs centered on local and regional Chesapeake Bay watersheds. The program trained teachers and reinforced and increased students' understanding of the importance of watersheds by providing hands-on, outdoor investigations.

Amount granted: \$8,000.00

9 South 12th St., 4th Floor  
Richmond, VA 23219  
804-788-8811, Ext. 201

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**John Marshall Soil and Water Conservation District  
Project #: 009-006**

Plan: John Marshall SWCD proposes to work with two schools on the Trout in the Classroom (TIC) project, which is a national program supported by Trout Unlimited that involves school students in hatching and raising trout in the classroom and releasing them in local trout streams. They seek funding for two equipment setups.

Results: John Marshall SWCD worked with two schools on the Trout in the Classroom project. Taylor Middle School located in Bealeton and Highland School in Warrenton ran the project as a sixth grade science activity. In addition to raising trout, students were introduced to watersheds, cold water ecology, macroinvertebrates, riparian buffers, and other factors influencing cold water fisheries.

Amount granted: \$2,237.00

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186-2849



**The State Fair of Virginia, Inc.**  
**Project #: 009-008**

Plan: In 2007, the SFVA organized a conservation partnership to develop a plan for "The Meadow Event Park" to conserve available natural resources and conduct conservation/education activities and programs. They seek funding to develop a curriculum at the middle and high school levels covering conservation topics important to restoring the Bay, which will be overseen by Ann Regn with DEQ.

Results: The new conservation/education signage has been viewed by over 250,000 visitors to The Meadow Event Park, new home of the State Fair of Virginia, since it was erected with funds from the CBRF. The North Anna River, on whose bank The Meadow Event Park is situated, is an ideal location to teach responsible practices in maintaining the health of the Chesapeake Bay. The conservation/education interpretive signage is a key component of the Conservation Education Plan developed by the SFVA Conservation Committee.

Amount granted: \$8,000.00

P.O. Box 26805  
Richmond, VA 23261  
804-569-3235

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**Northumberland Association for Progressive Stewardship**  
**Project #: 009-009**

Plan: As in their 2004, 2006, and 2007 grant applications, NAPS seeks funding to continue to educate citizens about the importance of marshes and encourage them to "garden" their marshes by removing debris and pruning back vegetation, along with planting a variety of marsh plants and controlling *Phragmites australis*.

Results: Fifty-six flats of marsh grass each containing 50 plants were planted on 19 properties, mostly in Northumberland County. This project was specifically aimed at educating citizens about the importance of marsh grass ecosystems. The education is implemented by using marsh grass for erosion control and to replace monocultures of *Phragmites australis* with a diverse assemblage of more desirable marsh plants. The increasing number of people wishing to eliminate *Phragmites* from their marshes attests to the ongoing success of this effort.

Amount granted: \$3,950.00

P.O. 567  
Heathsville, VA 22473  
804-453-6605

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**Virginia Eastern Shorekeeper  
Project #: 009-038**

Plan: Shorekeeper proposes a "Ghostpot Busters" program, which is a community-based project focusing on abandoned crab pots in the Bay. The four stages of their Year 1 action plan include recruitment, reconnaissance, removal, and reporting.

Results: The "Ghost Busters" program was designed to make a significant impact on the number of crab pots that are killing fish, crabs, turtles, and other marine life. The program has not only made a direct impact on the health of the coastal ecosystems, it has also increased the visibility of local water quality advocacy and awareness of the issue of derelict fishing equipment in the waterways.

Amount granted: \$10,000.00

P.O. Box 961  
Eastville, VA 23347  
757-678-6182

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**Northern Virginia Regional Park Authority  
Project #: 009-073**

Plan: Similar to their 2006 grant application, NVRPA seeks funding to plant trees, shrubs, and herbaceous plants at the Potomac Overlook Regional Park and along Donaldson Run. The project would positively affect water quality by reducing stormwater runoff and silting from erosion by restoring natural forest structure.

Results: Potomac Overlook Regional Park in Northern Arlington is a 70-acre urban nature preserve managed by the Northern Virginia Regional Park Authority. Staff have been actively involved in habitat restoration projects in the park and began a process of reclaiming significant acreage from the negative effects of non-native invasive plants. This grant was used to help continue these efforts in the Donaldson Run watershed. Funds were used to purchase trees that were planted by staff and volunteers in restored areas. The newly restored areas will serve as additional habitat for native park flora and fauna and increase forest cover in the park.

Amount granted: \$2,000.00

5400 Ox Rd.  
Fairfax Station, Va. 22039  
703-528-5406

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**Lanesville Heritage Preservation Society (Friends of Claude Moore Park)**  
**Project #: 009-075**

**Plan:** The Park would like to purchase additional watershed supplies (fine nets, boots, and waders) which would allow for further development of their field trips in environmental education. They also seek funds to purchase wildflower seeds, shrubs, and trees for the Environmental Science students at Park View High School to plant along their stream which was accidentally burned in 2007. This would help restore the buffer between the natural and active areas of the park and would help filter water running off from a nearby parking lot.

**Results:** The highlight project accomplished with the grant money was the replanting of a riparian area damaged by fire in 2007. A volunteer group of 27 students and four teachers and parents from Chesterbrook Academy Middle School spent the afternoon at the park as Earth Day activity. The students prepared the area and planted red maple trees and red twig dogwoods purchased with the grant funds. These will prevent the flow of sediments harmful to aquatic organisms into the stream. An additional group of 15 adult volunteers from Verisign came to the park to complete the plantings initiated by Chesterbrook Academy.

Amount granted:       \$1,999.00

21544 Old Vestal's Gap Rd.  
Sterling, VA 20164  
571-258-3704

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**Chesapeake Bay Foundation**  
**Project #: 010-042**

Plan: CBF proposes to implement a new program, "Alternative Spring Break," to increase outreach and volunteer participation among college students throughout the Commonwealth. This program will engage the next generation of Bay advocates through hands-on restoration work and through education discussions at the beginning and end of each work day. It will also provide assistance with restoration projects that benefit water quality and fosters partnerships with local conservation groups by providing a work force to help on their projects.

Results: The grant supported the Chesapeake Bay Foundation's *Alternative Spring Break Project*. The project resulted in the engagement of college volunteers at a variety of hands-on restoration activities throughout Virginia, specifically in Hampton Roads, Richmond, and Charlottesville. Restoration activities elicited the support and work of numerous environmental and community groups, establishing stronger bonds for community environmental projects. The activities had a tangible effect on water quality, including installing sand fencing to help rebuild sand dune damage, conducting shoreline cleanups to remove debris, planting hundreds of shrubs and trees to create shoreline buffers, rebuilding compost bins, creating native oyster habitat, removing invasive species, preparing and planting wildflower meadows, maintaining rain gardens, and other activities.

Amount granted:       \$12,358.00

Philip Merrill Environmental Ctr.  
6 Herndon Ave.  
Annapolis, MD 21403  
410-268-8816

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**Center for Watershed Protection**  
**Project #: 010-058**

**Plan:** The Center proposes to test and promote the benefits of rainwater harvesting in Prince Edward Co. and Charlottesville, Va. by supporting an agricultural and an ultra-urban application, monitoring runoff reduction capabilities of both systems, and conducting educational and outreach activities about this conservation practice, using the two systems as case studies.

**Results:** With support from a variety of partners and contractors, two new rainwater harvesting systems have been installed in Central Virginia to serve as test beds and demonstrations of this urban and agricultural waters conservation practice. This CBRF grant helped initiate the monitoring of both of these systems in order for Virginians to learn more about the quality of harvested rainwater and how it may be used for reducing runoff and use of well water or municipally-treated water.

Amount granted:       \$9,000.00

8390 Main St., 2nd Floor  
Ellicott City, MD 21043  
434-293-5793

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**Enrichmond Foundation**  
**Project #: 010-077**

**Plan:** The Foundation seeks funding for equipment to collect chemical, biological, and physical monitoring data that can serve as a baseline for future assessments of Reedy Creek water quality.

**Results:** The Reedy Creek Coalition (RCC) received funding from CBRF to establish a comprehensive monitoring program for Reedy Creek, a heavily developed urban stream in Richmond that is on the impaired waters list for excessive fecal bacteria levels. A combination of chemical, biological, and physical monitoring, along with related projects, were developed in response to the data collected.

Amount granted:       \$4,775.00

Richmond's Landmark Theater  
6 N. Laurel St.  
Richmond, VA 23220  
804-231-5949

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**Rivanna Conservation Society**  
**(Student Watershed Education in the Rivanna River Basin)**  
**Project #: 010-081**

Plan: Continuing further with their 07-09 grant applications, RCS proposes to conduct in-school education programs, plan and conduct the 2010 World Water Monitoring Day, host the Youth Watershed Summit, and translate "What is a Watershed?" from English to Spanish and French.

Results: RCS has had tremendous success with its programs this year and the following programs were supported by the fund: in-school education programs, planning and conducting of the 2010 World Water Monitoring Day, hosting of the Youth Watershed Summit, and the translation of "*What is a Watershed?*" into Spanish.

Amount granted: \$15,500.00

P.O. Box 1501  
Charlottesville, VA 22902  
434-977-4837

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**Oyster Reef Keepers of Virginia, Inc.**  
**Project #: 010-083**

Plan: As in their 03-06 and 2009 grant applications and with letters of support, ORKV seeks funding for 400,000 oysters and materials for their "Schools Restoring Oysters to the Chesapeake" program. New for this grant cycle, they also propose to enhance the S-ROC program by adding a new "spat collector" field component for 50 classes.

Results: With the grant funds, students raised and transplanted 378,700 oysters to sanctuary reefs in Virginia during the 2010-11 school years. Oyster Reef Keepers also engaged 150 teachers and their 7,500 students in the S-ROC (Schools Restoring Oysters to the Chesapeake) program during the school year, provided a meaningful field experience and a connection to the Chesapeake Bay for the 7,500 participating students, and began a new "Oyster Lifecycle & Spat Settlement" initiative by providing training and materials for teachers.

Amount granted: \$13,500.00

P.O. Box 55201  
Virginia Beach, VA 23471  
757-460-1200

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**Alleghany Highlands Master Naturalists  
Project #: 010-088**

Plan: The AHMN Chapter proposes for their "Stream Monitoring" program to increase citizen awareness and training for stream monitoring, develop and implement a Junior Master Naturalist program for middle school children, increase public awareness of the Bay watershed and its importance to Va., and increase resources on the Bay watershed available to educate and train students and Master Naturalist volunteers.

Results: The funds were disbursed for the purchase of stream monitoring equipment and support of the Junior Master Naturalist Chapter at the local middle school. Seventeen volunteers performed over 165 hours of volunteer work to accomplish the goals of the grant. Projects included Virginia Trout Stream Sensitivity Study, stream monitoring, Cowpasture River Preservation, Boxerwood Gardens Stream Monitoring, and Junior Master Naturalist activities.

Amount granted: \$1,666.00

14239 Douthat State Park Rd.  
Millboro, VA 24460  
540-862-8100

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**Trout Unlimited, Inc.  
Project #: 010-099**

Plan: Trout Unlimited proposes for their "Beaver Creek Restoration" project to eliminate the excessive erosion and stream sedimentation coming from the unstable steep streambanks in an 1,000-foot section of Beaver Creek and improve the brook trout habitat in the stream. Specifically, natural stream design restoration techniques will be used to reduce the width of the stream, reslope and stabilize the streambanks, and incorporate in stream habitat structures.

Results: The grant partially supported the TU Beaver Creek Restoration project to improve water quality and stream habitat to benefit native brook trout and help meet Chesapeake Bay Tributary Strategy goals for sediment and nutrient reduction. This goal was achieved by narrowing and deepening the stream channel and eliminating the excessive erosion and stream sedimentation coming from the steep and unstable streambanks along 1,000 feet of Beaver Creek. Two thousand feet of Beaver Creek was restored using natural stream design restoration techniques to restore the channel's pattern, profile, and dimension. An off-stream watering system was installed for cattle and volunteers planted willow and dogwood cuttings along 1,600 feet of restored streambanks.

Amount granted: \$12,500.00

1300 North 17th St., Suite 500

Arlington, VA 22209  
540-459-8163

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**John Marshall Soil and Water Conservation District  
Project #: 011-003**

Plan: John Marshall SWCD seeks funding for E. coli monitoring of Thumb Run and Great Run, chemical monitoring of the Upper Rappahannock watershed streams, water monitoring with Fauquier High School Ecology classes at Cedar Run, and Conservation Field Days and Farm Tours for 950 students.

Results: The CBRF was used to purchase water testing supplies that were used to support the TMDL programs the District is working on in the Great Run and Thumb Run watersheds in Fauquier County, as well as six other streams in the Upper Rappahannock River watershed. Also, testing supplies were used to support two local high schools in their monitoring efforts.

Amount granted: \$1,650.66

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186  
540-347-3120, ext. 3

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**Lands and Waters, Inc.  
Project #: 011-010**

Plan: With letters of support, Lands and Waters proposes to construct an observation staircase and platform to a "green" roof to permit students and adults access for better understanding and appreciation of the benefits of green roofs; restore 14,000 square feet of riparian buffer along Hunter Mill Rd.; construct a kiosk with a vegetative roof; and communicate the existence of the site in the local community to businesses in Oakton, neighborhood homeowners associations, and related specialized nonprofits. They seek funding for supplies/materials, consultants, and transportation/delivery.

Results: Funds from the grant were used to restore the riparian buffer to the Rocky Branch (formerly Unity of Fairfax) Stormwater Management Project in Oakton, Virginia. Approximately 14,000 square feet of riparian buffer along Hunter Mill Road in Oakton, Virginia was restored. The BayScaped projects on this property support the principles of the Chesapeake Bay Program and the Virginia Standards of Learning. They promoted the health of the Bay by reducing pollution and stormwater in local streams and by increasing wildlife habitat and native plant diversity.

Amount granted: \$3,555.00

2909 Charing Cross Rd. #9  
Falls Church, VA 22042



**Shenandoah Valley Battlefields Foundation**  
**Project #: 011-038**

Plan: Continuing with their 2009 grant application and with letters of support, SVBF proposes for their "Huntsberry Farm Riparian Buffer Restoration" project to prevent sedimentation and nonpoint source water pollution by excluding livestock from Redbud Run. They will also create two educational programs: (i) students will actively participate in the restoration of native trout to Redbud Run and (ii) provide a model of a holistic method of restoring and improving stream health while increasing the productivity of the surrounding farm operation and land.

Results: The CBRF grant helped the SVBF secure the success of the *Huntsberry Farm Riparian Buffer Restoration* project. SVBF created an alternative watering well source far away from the Redbud Run on the Huntsberry property so that cattle now graze on the property within a new rotational grazing system. The SVBF best management improvement project work at Third Winchester can act as a holistic model for the rehabilitation, conservation, and management of some of Virginia's most historically significant farmland and water resources.

Amount granted:       \$10,000.00

P.O. Box 897  
New Market, VA 22844  
540-740-4545, ext. 203

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**Culpeper Soil & Water Conservation District**  
**(Streambank Stabilization and Restoration Training Workshop)**  
**Project #: 011-048**

Plan: Continuing with their 2010 grant application on streambank/stream channel restoration projects in the Upper Rappahannock Basin, the Culpeper SWCD proposes a one day streambank restoration/stabilization training workshop. The workshop will include a field trip to view the installation of several practices by a contractor at the site and a tour of recently completed projects.

Results: The grant assisted with producing and delivering a one day workshop for landowners and land managers on the various technical approaches and programmatic opportunities in Virginia for stabilizing badly eroded streambanks and reengineering badly scoured stream channels. The intent of the workshop was to better inform land users on how to gain access to both technical and financial assistance for undertaking projects to prevent further sedimentation of waterways. Conducted in the Town of Orange, Virginia, over 30 landowners attended the workshop.

Amount granted:       \$6,850.00

351 Lakeside Dr.  
Culpeper, VA 22701  
540-825-8591

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**Browne Academy  
Project #: 011-052**

Plan: The Academy proposes to restore riparian habitat along Pike Branch, which is part of the Cameron Run watershed; educate the community about their role in protecting health of local waters and the Bay watershed; and provide watershed stewardship opportunities for the academy community. They seek funds for native trees, shrubs, and herbaceous plants for the riparian restoration; two interpretive signs; and technical guidance for planning and implementing the habitat restoration.

Results: Over 40 volunteers, students, parents, and staff from the Browne Academy community planted over 400 native trees, shrubs, and herbaceous plants along the west bank of Pike Branch on campus. The 50 trees, 120 shrubs, and 235 herbaceous species planted reclaimed 130 feet by 40 feet of riparian buffer along Pike Branch. The project was an important step for the Browne community in improving the water quality of Pike Branch and ultimately the Chesapeake Bay.

Amount granted: \$3,490.00

5917 Telegraph Rd.  
Alexandria, VA 22310  
703-960-3000, ext. 1039

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**Va. Tech - Eastern Shore Agricultural Research and Extension Center  
Project #: 011-061**

Plan: Similar to their 1997, 1998, 2001, 2005, and 07-10 grant applications on tomatoes, the Center proposes to define an appropriate nutrient management program in vegetable and field crops, which will reduce overall nutrient loads into sensitive waterways. Successful implementation of innovative fertilizer recommendations and practices will reduce the concentrations of nitrogen and phosphorus entering groundwater via leaching and entering the Bay through runoff.

Results: The goal of this project was to improve nitrogen and phosphorus fertilization and fertilizer use efficiency in the Chesapeake Bay watershed. Over 3,000 farmers, agency personnel, extension agents, and children were educated on the benefits of using proper nutrient application rates. The principles of the 4-Rs were stressed, the right rate, right source, right method, and right timing, to increase overall fertilizer nutrient use efficiency and 1,500 cards that demonstrated required nutrients for target yields and amount of nutrients removed with crop biomass were distributed.

Amount granted: \$7,953.00

33446 Research Dr.

Painter, VA 23420  
757-414-0724, ext. 16

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**Interstate Commission on the Potomac River Basin  
Project #: 011-081**

Plan: As in their 1997, 2000, 2001, and 06-09 grant applications, ICPRB proposes to continue with the restoration of the American shad populations to the Rappahannock and Potomac Rivers with the assistance of approximately 15-18 Northern Va. schools. The project will involve the public in a very profound way with many volunteers, students, and teachers helping to collect the adult shad for propagation and students raising shad and herring fry in their classrooms.

Results: Seventeen schools from Northern Virginia participated in the Potomac and Rappahannock River shad restoration project through the support of the fund. The schools from elementary to high school had 459 students participating in the program. Three hundred twelve students took field trips to river banks at either Occoquan National Wildlife Refuge or Old Angler's Inn where they personally released approximately 39,400 shad fry that they had raised and hatched in their classrooms. Teachers agreed that the program provided the students with valuable science and educational opportunities.

Amount granted: \$8,300.00

51 Monroe St., Suite PE-08  
Rockville, MD 20850  
301-984-1908, ext. 106

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**Oyster Reef Keepers of Virginia, Inc.  
Project #: 011-089**

Plan: As in their 03-06 and 2009 grant applications and with numerous letters of support, ORKV seeks funding for 400,000 oysters and materials for their "Schools Restoring Oysters to the Chesapeake" program. They also seek funding to enhance their program by providing "Habitat Cubes" and training to 50 teachers.

Results: With grant funds, Oyster Reef Keepers of Virginia was able to engage 167 teachers and 8,350 students in their S-ROC (Schools Restoring Oysters to the Chesapeake) program during the school year, provide a meaningful field experience and a connection to the Chesapeake Bay for the participating students, and augment their "Habitat Cube" initiative by providing training and materials for teachers.

Amount granted: \$13,000.00

P.O. Box 55201  
Virginia Beach, VA 23471  
757-460-1200

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**Chesapeake Wildlife Heritage  
Project #: 012-006**

Plan: CWH proposes to educate 25 landowners about habitat restoration, restore 10 acres of wetlands, and plant 50 acres of native warm season grasses and wildflowers in the Shenandoah and James River watersheds.

Results: Support from the CBRF provided funding for Chesapeake Wildlife Heritage staff to educate 36 landowners, direct the wetland restoration and buffer planting work, restore 12 acres of wetlands, and plant 218 acres of riparian buffers. The goal of this work is to improve water quality in the Chesapeake Bay and two of its major tributaries, the James and Shenandoah Rivers.

Amount granted: \$6,000.00

P.O. Box 1745  
Easton, MD 21601  
434-825-7587

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**James River Association  
Project #: 012-025**

Plan: JRA seeks funding for their volunteer "RiverRats" program, which was created to provide more effective and consistent monitoring of waterways throughout the James River watershed. The volunteers must attend a full day training session.

Results: The James River Association's "RiverRats" program is in its second year. There are 116 volunteers patrolling 521 section miles of waterways and 89 percent of the James River's main stem on a regular basis. "RiverRats" are volunteer river monitors who have been trained to recognize and report pollution or other threats to the environment. The objective of the grant was to recruit and train at least 40 new "RiverRat" volunteer river monitors and conduct an annual RiverRat Raft-Up event to provide additional training. Seventy-seven new "RiverRats" were trained and a weekend RiverRat Raft-Up was held at Rockcliffe Farm Retreat in Concord, Virginia.

Amount granted: \$10,000.00

9 South 12th St., 4th Floor  
Richmond, VA 23219  
804-788-8811 ext. 201

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**Rivanna Conservation Society**  
**Project #: 012-057**

Plan: Continuing further with their 07-11 grant applications, RCS proposes for their watershed-wide monitoring "Network" project to create a river-wide "Network" of students and teachers, share proven educational technologies and techniques, support teachers in meeting their MWEE goals, assure self-sufficiency by providing educational tools, and convey the important relationship between local water concerns at the headwaters and those of the imperiled Bay.

Results: The Rivanna Conservation Society has created a new program called Water Health for the Commonwealth. Water Health engages young people and educators in the creation of a comprehensive student/teacher program to monitor the rivers and streams for the chemical, physical, bacterial, and biological parameters. The project is unique because of the creation of a monitoring network that will be linked throughout the two watersheds by e-mail, Internet, Facebook, and Twitter. Currently there are 10 schools participating and the goal is to ultimately have 40 schools involved in the project. Participants will be attending or teaching at schools bordering or in direct proximity to the Rivanna or James Rivers.

Amount granted:       \$6,000.00

P.O. Box 1501  
Charlottesville, VA 22902  
434-985-1802

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**Chesapeake Bay Foundation**  
**Project #: 012-068**

Plan: CBF proposes for their "Upham Brook Holistic Watershed Restoration" project to conduct whole-community watershed restoration, education, and conservation activities that will assist Upham Brook, an urban watershed in Henrico Co., in meeting its target pollution reduction goals. CBF seeks funding for several of their outreach and education components of the project.

Results: The CBF's Upham Brook Holistic Watershed Restoration project conducted whole-community watershed restoration, education, and conservation activities that are assisting Upham Brook, an urban watershed in Henrico County that drains to the Chickahominy River, the James River, and the Chesapeake Bay, in meeting its target pollution reduction goals. The fund helped CBF to work cooperatively with several organizations with the goal of employing a broad array of activities, including conducting stream and roadway clean-up events; planting events with community members; engaging community volunteers in the installing of two rain gardens and showing community members how they can create rain gardens on their own property in order to limit runoff; training adults through an eight-week intensive course for volunteers; and installing floating wetlands at Lewis Ginter Botanical Garden and Belmont Golf Course.

Amount granted: \$15,000.00

Philip Merrill Environmental Ctr.  
6 Herndon Ave.  
Annapolis, MD 21403  
410-268-8816

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**New Community Project**  
**Project #: 012-074**

Plan: With letters of support, NCP proposes for their "Stream Restoration" project to restore the Northend Greenway Pedestrian and Bike Pathway along the Blacks Run stream. The project will provide riparian buffers, pet waste stations, and educational information about riparian buffers and the important role that stream restorations play in restoring downstream watersheds and the Bay.

Results: The CBRF provided funding for minimal grading, seeding, mulching of disturbed areas with coir mat, and a riparian buffer, 6,000 square feet, along the stream banks of Blacks Run.

Amount granted: \$7,257.00

715 N. Main St.  
Harrisonburg, VA 22802  
540-433-2363

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**Virginia Save Our Streams Program**  
**Izaak Walton League of America, Inc.**  
**Project #: 012-084**

**Plan:** As in their 97-09 grant applications, VA SOS proposes to continue to train interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring. Focusing on seven watersheds within the Bay, they seek funding to train volunteers, coordinate statewide volunteer activity, and develop mechanisms for publishing data.

**Results:** The Izaak Walton League provided training, outreach materials, and administrative support services to more than 500 Virginia Save Our Streams program volunteers, including stream monitors, regional trainers, and regional coordinators. Funds were used to identify priority watersheds within the Chesapeake Bay drainage areas; recruit, train, and equip new groups of volunteers in these watersheds; upgrade the VA SOS website to improve access to information about the quality of Virginia waters; and begin development of public outreach tools such as water quality report cards, fact sheets, and presentations volunteers can use to educate the public about water quality and pollution prevention strategies.

Amount granted:       \$4,000.00

707 Conservation Lane  
Gaithersburg, MD 20878  
301-548-0150, ext. 219



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**Hull Springs Farm Foundation  
Longwood University  
Project #: 012-088**

Plan: HSFF proposes to continue monitoring off the "Living Shoreline" at their farm and compare the newly collected data with data collected in 2007 and 2009, as well as future monitoring. A wide range of organisms, including benthic-dwelling worms, fish, crabs, and snails, will be collected to measure the responses of these populations to the living shoreline installation.

Results: The grant allowed Longwood University students and faculty to collect and analyze hundreds of water samples and conduct cold-weather and warm-weather monitoring on the innovative living shoreline installation located on the shoreline of Longwood's Hull Springs Farm in Westmoreland County. A wide range of organisms, including benthic-dwelling worms, clams, fish, shrimp, crabs, and snails, were collected to measure the response of these populations to the living shoreline installation. The research will assist those making policy decisions regarding shoreline protection and the health of aquatic biodiversity throughout Virginia's coastal zone.

Amount granted: \$3,200.00

645 Hull Springs Farm Rd.  
Montross, VA 22520  
804-472-2621

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**Earth Sangha, Inc.**  
**Project #: 012-091**

**Plan:** Earth Sangha proposes to develop a reliable seed supply of native riparian herbaceous plants, collected from local, wild populations (local ecotypes), to improve the ecological value of stream buffer restoration projects in Northern Va.

**Results:** This project expanded the native riparian seed collection program that serves the Earth Sangha Wild Plant Nursery, where over 250 native plant species are being propagated from restoration projects in Northern Virginia from locally collected wild seed. During the project, staff and volunteers collected seed from 92 species of native riparian-zone grasses and forbs (including spores from relevant fern species). In all, about 300 pounds of seed were collected, with permission, from about 20 local natural or semi-natural areas. Project seed and planting stock reached at least 16 riparian sites, amounting to more than five acres. About 300 volunteers and two paid interns participated in the program, which the Earth Sangha is continuing to develop, in collaboration with local schools and public and management agencies.

**Amount granted:** \$5,000.00

10123 Commonwealth Blvd.  
Fairfax, VA 22032  
703-764-4830

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**Trout Unlimited, Inc.**  
**Project #: 012-100**

Plan: TU proposes to restore 600 linear feet of stream to suitable brook trout habitat in Coyner Springs, a channelized urban spring-fed tributary of South River in the City of Waynesboro, Va. In addition, an educational fishery will be established to serve as an outdoor classroom to complement TU's successful "Trout in the Classroom" program and improve the recreational resources of the Coyner Springs Park. Lastly, TU will develop interpretive signs for the restoration site and lesson plans for local teachers to use in outdoor streamside science education.

Results: The goal of the Trout Unlimited Coyner Springs Restoration project was to restore 600 linear feet of stream to suitable brook trout habitat in Coyner Springs, a channelized urban spring-fed tributary of South River in the City of Waynesboro, Virginia. In addition to the habitat restoration and water quality improvement goals, an educational fishery is being established to serve as an outdoor classroom to compliment Trout Unlimited's successful "Trout in the Classroom" program and improve the recreational resources of the Coyner Springs Park. Upon final completion in March 2014, the project will have improved fish habitat in Coyner Springs and created an ideal location for area students to release their "Trout In the Classroom" brook trout and learn about cold water spring ecosystems and their importance in the Shenandoah Valley for water quality, habitat, and recreation.

Amount granted: \$4,000.00

1300 North 17th St., Suite 500  
Arlington, VA 22209  
540-459-8163

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**Piedmont Environmental Council**  
**Project #: 012-101**

Plan: PEC seeks funding to purchase one Enviroscope Watershed/Nonpoint Source Model, plus water quality monitoring kits, for use during their 2013 workshops and field trips. PEC will continue to use these supplies for environmental education activities in the Potomac River watershed, including the establishment of a macroinvertebrate monitoring program in Clarke Co.

Results: Over 385 students and adults have engaged with the Enviroscope model to learn about the impacts of nonpoint source pollution on local streams, rivers, and the Bay in a vivid, visually arresting way. Over 45 Clarke County residents have received stream monitoring training and will be participating in the start-up volunteer benthic macroinvertebrate monitoring program that PEC kicked off this year. The equipment purchased through the grant has helped to facilitate this opportunity and lay the foundation for engaging residents with their local streams and building a constituency for clean water, as well as providing heretofore unavailable citizen monitoring data on the health of streams in Clarke County to supplement DEQ data.

Amount granted:      \$1,977.00

P.O. Box 460  
Warrenton, VA 20188  
703-431-6941

**SOIL & WATER CONSERVATION DISTRICTS**  
**CONSERVATION**

**James River Soil & Water Conservation District**  
**Project #: 000-007**

Plan: James River SWCD seeks to purchase a wetland Enviroscope model to complement the watershed "Enviroscope" model they constructed with a previous Chesapeake Bay Restoration grant.

Results: The District purchased a Wetlands Enviroscope model with grant funds obtained from the CBRF.

Amount granted: \$971.00

6450 Courthouse Rd.  
Prince George, VA 23875  
804-957-6148

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**Page County Tree Board**  
**Project #: 000-014**

Plan: Page County Tree Board proposes to purchase at least 1,000 shrubs and 100 trees and plant them on the large cattle fields that buffer both sides of the Hawksbill Creek. The riparian planting will filter and trap nutrients from the cattle manure, stabilize the eroding streambanks, and slow water flows during periods of high water.

Results: The fund supported the work on the Luray-Hawksbill Greenway. The greenway consists of a three mile walking/biking trail along the Hawksbill Creek bordering a riparian buffer area and transitioning into the urban portion of downtown Luray.

Amount granted: \$3,000.00

101 South Court St.  
Luray, VA 22835  
540-743-2135

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**Piedmont Soil and Water Conservation District - Prince Edward County Government  
Project #: 000-043**

Plan: Piedmont SWCD proposes to increase awareness of BayScaping practices, reduce Nonpoint Source pollution from runoff of newly constructed complex, provide the public an example of using native species to enrich wildlife habitat, as well as the implementation of alternative landscape designs to mitigate stormwater and streambank erosion impacts resulting from impervious developments.

Results: Working with partners USDA-NRCS and Prince Edward County, the Piedmont SWCD has increased local awareness of Chesapeake BayScaping practices in order to reduce nonpoint source pollution from runoff of newly constructed complex, increase use of native plants to enrich wildlife habitat, and provide a model of business landscaping that supports the project, resulting in improvements to more than one-half acre of gardens around a building. Bird and Butterfly gardens, Wildlife Field Border, and native Warm Season Grass patches are available as outdoor continuing education demonstration gardens. While protecting water quality and reducing soil erosion, the project also increases the community appeal and property market value of the Natural Resources and Agriculture Building. Studies have shown that plants and green spaces also improve worker productivity and increase job satisfaction, significant benefits of this project.

Amount granted:       \$2,500.00

100-B Dominion Dr.  
Farmville, VA 23901  
804-392-3782, Ext. 115

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**Friends of Chesterfield's Riverfront**  
**Project #: 000-056**

Plan: The Friends of Chesterfield's Riverfront proposes to create a greenway corridor for wildlife and, where appropriate, for public access. This greenway would improve the water quality in the Bay as well as make a contribution to the community's quality of life.

Results: Besides community contacts and educational seminars for citizens, the major product from the CBRF grant is the greenway's brochure. It will be used for an ongoing marketing piece for greenways in Chesterfield County. The brochure was designed to promote greenways and address questions often considered in communities planning their first greenway's project.

Amount granted: \$3,400.00

P.O. Box 2158  
Chesterfield, VA 23832  
804-796-6091

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**Va. Tech - Eastern Shore Agricultural Research & Extension Center**  
**(Sedimentation in Plasticulture)**  
**Project #: 001-004**

Plan: This project focuses on how to protect water quality from nonpoint sources of water pollution resulting from the use of land. The objective is to develop between-bed management strategies that will minimize sediment movement from tomato crops and determine the impact during growing season. This will be conducted at the Eastern Shore Agricultural Research and Extension Center.

Results: As a result of this study, the use of rye to reduce sediment movement is expected to continue. No full evaluation available.

Amount granted: \$8,740.00

33446 Research Dr.  
Painter, VA 23420  
757-414-0724, ext. 12

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**Mattaponi Heritage Foundation**  
**Project #: 001-024**

Plan: The Foundation requests additional funding for their shad hatchery including the purchase of a water filtration system of a much higher capacity, installation of HVAC for climate control, two Sun Mar composting toilets, the purchase of supplies, and fish to supply the roe and sperm for the 2001 season.

Results: With the new state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its second year of operation, the Mattaponi people experienced another extremely successful shad restoration season. More than four million fry were hatched and returned back to the Mattaponi River. The hatchery also housed a water quality monitoring laboratory to monitor the health of the Mattaponi River. The new facility is an important center for the continued support of the Mattaponi River and the Chesapeake Bay.

Amount granted: \$12,000.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**Culpeper Soil & Water Conservation District**  
**(Farm Tour)**  
**Project #: 001-045**

Plan: Culpeper SWCD proposes to conduct a Saturday tour of the riparian agricultural lands where Bay Friendly Best Management Practices (BMPs) have been installed that support the reduction of nutrients entering surface waters, provide streamside protection, and reduce sedimentation. Culpeper SWCD requests funding for the lease of a vehicle, mileage, 10 BMP signs, supplies, handouts, and district maps.

Results: The BMP (Best Management Practices) Farm Tour was conducted in the fall in Greene and Orange Counties. Twenty-five participants who were new landowners in the counties were looking for technical direction for the management of their lands. Increased awareness of and participation in District programs resulted.

Amount granted: \$675.00

351 Lakeside Dr.  
Culpeper, VA 22701  
540-825-8591



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**Beyond Creation**  
**Project #: 001-048**

Plan: conservation and green energy resource education in an easily accessible and understandable manner. They seek funding to build two playhouses that utilize as their only power source solar panels and a wind generator and two ecological system models (Enviroscape).

Results: Earth Child attracted the participation of more than 6,000 children and adults through demonstrations in the Chesapeake Bay watershed. Informational sheets were given to many about the potentiality and use of everything from wind turbines or solar panels in alliance with net-metering for personal, cost-effective home energy production to the integration of water conservation methods for homes and businesses.

Amount granted: \$4,000.00

P.O. Box 702  
Tasley, VA 23301  
757-789-3523

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**Valley Conservation Council**  
**Project #: 001-049**

Plan: VCC requests funds to pay for a current staff member, including travel and administrative overhead, to work on their Shenandoah Valley mapping project, modeled after the Piedmont Environmental Council's computer-based mapping project. They also seek funding for a color laser printer.

Results: The Valley Conservation Council has been able to continue to promote voluntary measures that protect waterways to the Chesapeake Bay and view sheds within the Shenandoah Valley and other lands with marked value for agriculture, historic importance, or wildlife habitat. Through this project, VCC has expanded its Geographic Information System (GIS) continuing to map lands of critical importance for watershed protection and to promote appropriate development within its 11-county service region.

Amount granted: \$12,950.00

P.O. Box 2335  
Staunton, VA 24402  
540-886-3541

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**Piedmont Soil & Water Conservation District  
(Sandy River Watershed)  
Project #: 001-050**

Plan: Piedmont SWCD seeks funding for a part-time coordinator to perform duties of public relations, map preparation, database management, scheduling, and extensive correspondence for their Sandy River Watershed project.

Results: Water quality monitoring continued in the creeks and streams of the Sandy River watershed headwaters. Field data was recorded and then graphically prepared for presentation. Targeting agricultural Best Management Practices to producers in the Sandy River watershed was also identified as a priority to maintain water quality. The support of the funds has pulled together citizens, leaders, and decision makers into concerned watershed stakeholders who value their water quality.

Amount granted: \$5,200.00

100-B Dominion Dr.  
Farmville, VA 23901  
Phone #: 804-392-3782, ext. 5

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**Three Rivers Soil & Water Conservation District  
Project #: 001-087**

Plan: Three Rivers SWCD requests funds to purchase a wetland Enviroscope model to complement the watershed Enviroscope they received in their 2000 grant.

Results: The fund purchased a wetland Enviroscope model to complement the watershed Enviroscope model which was previously purchased. The models are used regularly with children's groups and for adult education programs. Both models have been used at the third grade elementary level and fifth grade secondary levels to assist with the current Standards of Learning objectives in Natural Resources/Science.

Amount granted: \$896.50

P.O. Box 815  
Tappahannock, VA 22560  
804-443-2327

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**Headwaters Soil & Water Conservation District**  
**Project #: 001-089**

Plan: Headwaters SWCD seeks funding to send the Buffalo Gap Science Club, whose members have been interpreters and tour guides at Augusta Springs Wetlands in the George Washington National Forest, and their teachers/advisors on a three-day trip to the Bay to further their environmental education.

Results: The Buffalo Gap Science Club was rewarded for their work for leading field trips at the Augusta Springs Wetlands with a three day trip to Smith Island. Canoeing, marsh plant identification, blue crab research, as well as meeting the watermen who farm the Chesapeake Bay, and discussing watershed and farming connections were part of the project.

Amount granted: \$2,830.00

P.O. Box 70  
Verona, VA 24482-0070  
540-248-4328, ext. 3

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**Virginia Marine Resources Commission, Conservation and Replenishment Department**  
**(Westmoreland Project)**  
**Project #: 002-027**

Plan: VMRC requests funds to purchase 30,000 bushels of oyster shells to create an oyster restoration plan for Westmoreland County. They will rebuild one oyster sanctuary reef, restore oyster reef habitat, provide an opportunity for citizens to become involved, and stimulate public awareness of the ecological and economic value of oysters.

Results: The fund helped with the restoration of oysters in Westmoreland County. A one-half acre sanctuary reef was built with 31,752 bushels of oyster shells at Crow Bar in the Yeocomico River, a second reef was built at Allen Point in the Yeocomico River with 32,412 bushels of oyster shells, and a third sanctuary reef was partially completed with 20,538 bushels of shells in Nomini Creek. Both reefs in the Yeocomico received excellent spat sets for the year.

Amount granted: \$20,000.00

2600 Washington Ave., 3rd Floor  
Newport News, VA 23607-0756  
757-247-2121

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**Hopewell Regional Wastewater Treatment Facility**  
**Project #: 002-041**

Plan: HRWTF proposes to expand their submerged aquatic vegetation (SAV) transplanting efforts conducted in the James River during 1999-2001, evaluate the performance of different species, monitor the sites for water quality and SAV growth and survival, and continue to provide hands-on educational experiences in SAV propagation and restoration for Virginia secondary school students.

Results: Approximately 550 classrooms participated in the Chesapeake Bay Foundation "Grasses in Classes" program, where many of the grasses grown from seeds in classrooms were transplanted in the James River at the Westover site located along the Charles City County shoreline.

Amount granted: \$5,000.00

P.O. Box 969  
Hopewell, VA 23860  
804-541-2214

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**Alexandria Seaport Foundation**  
**Project #: 002-046**

Plan: ASF proposes in association with the Earth Steward program to have students and adult work groups clean and stabilize wetlands and shorelines, cultivate and propagate rescued native plants and seeds in ASF's wetlands nursery ponds, and restore previously cleared wetlands with replanted native stock.

Results: As a result of this grant, the Seaport Foundation was able to introduce more students to the Potomac River and its surrounding wetlands, test more waters with LaMotte test tabs, continue operations in the T. C. Williams High School greenhouse, and supplement personnel salaries to educate and work with young people in the Potomac watershed.

Amount granted: \$7,300.00

P.O. Box 25036  
Alexandria, VA 22313  
703-549-7078

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**Elizabeth River Project**  
**Project #: 002-050**

Plan: The Project proposes to recruit and assist River Star industries with restoration, conservation, and pollution prevention in the Southern Branch of the Elizabeth River. They also seek funding to recruit leading artists in educating the public on the need to "clean Elizabeth's bottom."

Results: The results ranged from creating a 22-acre no-mow zone, to installing energy-efficient lighting saving the facility \$16,000 in electricity, and treating more than one million gallons of runoff and wastewater from a dry dock. The River Stars on the Southern Branch have documented significant results to improve water quality on one of the most industrialized rivers on the Chesapeake Bay through pollution prevention and wildlife habitat enhancement.

Amount granted: \$8,000.00

801 Boush St., Suite 204  
Norfolk, VA 23510  
757-625-3648

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**Center for Watershed Protection**  
**Project #: 002-059**

Plan: The Center for Watershed Protection, in cooperation with the James River Association, proposes to provide watershed protection and restoration services to help implement the Powhatan Creek Watershed Plan in James City County and further protect the watershed.

Results: The funds provided continued protection of the Powhatan Creek in James City County and helped with the publication of *Recommended Model Development Principles for James City County, Virginia: Consensus of the Local Site Planning Roundtable*.

Amount granted: \$13,350.00

8391 Main St.  
Ellicott City, MD 21043  
410-461-8323

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**North Fork Goose Creek Watershed Committee  
c/o Loudoun Soil and Water Conservation District  
Project #: 002-061**

Plan: The Committee, with the help and support of the Loudoun SWCD, is requesting funds to implement a Community Watershed Education Program for a 12-month period. They will conduct volunteer training and lake water quality monitoring on Sleeter Lake for six months, stream monitoring at seven sites with emphasis on Crooked Run, hold two workshops, publish and distribute two project newsletters, and maintain a project website to educate citizens about project activities and encourage watershed protection.

Results: During the Sleeter Lake Study, water quality at five sites was monitored for pH, dissolved oxygen, nitrate, phosphate, temperature, and turbidity. Two pH spikes were identified at several of the locations. Sediment testing revealed traces of heavy metal contamination. Additional funding requested for further sampling.

Amount granted: \$10,000.00

30-H Catocin Circle, SE  
Leesburg, VA 20175  
703-777-2075, Ext. 106

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**Friends of Bull Run, Inc.  
Project #: 002-075**

Plan: FoBR proposes to have students perform stream monitoring that complements and adds to the criteria of Audubon Naturalist Society's Virginia Water Quality Monitoring and introduce them to an effective chemical examination of freshwater ecosystems. They seek funding for a Hydrolab Quanta Package that provides scientists with an accurate and efficient piece of monitoring equipment that analyzes dissolved oxygen, pH, oxidation/reduction, specific conductivity, and temperature.

Results: Bull Run Mountains Conservancy (BRMC) conducted an experimental learning-based "Freshwater Ecology Study" for students and teachers as well as a "Bugs In the Water Workshop" for the general public. The programs provided participants with an opportunity to gain a deeper understanding of freshwater communities. BRMC has been able to introduce students, teachers, and the public to an effective chemical examination of freshwater ecosystems because of the financial support provided by this grant.

Amount granted: \$3,000.00

P.O. Box 210  
Broad Run, VA 20137-0210  
703-753-2631

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**Jamestown 4-H Educational Center**  
**(Forested Wetland Education Program)**  
**Project #: 002-080**

Plan: The Jamestown 4-H seeks funding for their Environmental Education Program to develop a monitoring program of the forested wetland area surrounding the Hanover Aquatic Resource Center, define the natural nature trail at same, upgrade the aquatic and marine facilities at the Resource Center, and improve water quality that flows into the James River.

Results: The grant allowed for an enhanced water quality program at the Jamestown 4-H Educational Center. Funds were used for the purchase of water quality test kits, emergent grasses, the construction of a nature trail with teaching stations and signage, the purchase of various aquariums for the Hanover Aquatic Resource Center, and an Enviroscape that can be used with all school groups and summer camping groups at the Jamestown 4-H Educational Center.

Amount granted:       \$9,320.00

3751 4-H Club Rd.  
Williamsburg, VA 23185  
757-253-4931

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**Lake Anna Civic Association**  
**Project #: 002-103**

Plan: LACA seeks funding to continue their water quality monitoring and environmental education programs in Lake Anna.

Results: The grant allowed LACA to begin planning for a Watershed Roundtable which will provide a forum for all watershed stakeholders to discuss watershed issues. Presentation equipment and materials purchased from the funds facilitated contact with the administrators and staff of their three county governments in preparation for Watershed Roundtable organization and planning. The grant provided travel funds to improve their networking with state and environmental organizations through increased attendance at conferences and participation in York Watershed forums.

Amount granted: \$2,822.00

3011 Conways Trail  
Bumpass, VA 23034  
540-895-5046

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**Potomac Conservancy, Inc.**  
**Project #: 002-106**

Plan: The Potomac Conservancy proposes for its "Potomac watershed restoration and protection project" to enhance the riparian habitat and water quality at multiple sites in the watershed, the second largest of the Bay. This project will also promote permanent protection of sensitive riverside land using an integrated approach that combines the immediate benefits of ecological restoration with the long-term benefits of conservation easements.

Results: The Potomac Conservancy's Riparian Restoration and Protection project was successful at accomplishing its goals of engaging adults and students as volunteers in hands-on efforts to restore sensitive streamside land throughout Fairfax and Loudoun Counties in the Authority's target areas. More than 300 individuals participated in restoration projects planting nearly 400 native hardwood plants on public land along several streams and rivers. Educational handouts about the benefits of riparian forests for maintaining water quality were distributed to more than 500 individuals. Educational signage at planting sites and print and e-mail newsletters reached over 4,000 individuals directly.

Amount granted: \$5,450.00

1730 North Lynn St., Suite 403  
Arlington, VA 22209



**Virginia Marine Resources Commission, Conservation and Replenishment Department**  
**Project #: 003-007**

Plan: VMRC seeks funding to purchase 24,000 bushels of oyster shells to transport and construct an oyster reef in Westmoreland County on the Nomini River.

Results: The County of Westmoreland partnered with the Virginia Marine Resources Commission, Conservation and Replenishment Department, and The Port Kinsale Foundation to develop the Westmoreland Oyster Heritage Program. The program developed a plan to restore oysters in Westmoreland County. Two sanctuary reefs were completed in the Yeocomico River and one in the Nomini River. A one-half acre sanctuary reef was built with 33,121 bushels in the Lower Machodoc River. There were 8,749 bushels of seed oysters added from the Great Wicomico to the reef in the Nomini River and a nearby harvest area. Broodstock oysters are being added to all reefs. Money from the CBRF helped restore some of these beds.

Amount granted: \$15,000.00

2600 Washington Ave.  
3rd Floor  
Newport News, VA 23607-0756  
757-247-2121

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**Virginia Marine Resources Commission**  
**(American Shad Program)**  
**Project #: 003-022**

Plan: As in their 2002 grant application, VMRC proposes to hire 10-12 commercial fishermen at the rate of \$200.00 per fishing day to set gill nets on the spawning grounds of the Pamunkey River for the capture of American shad broodstock. Approximately 1,200 to 1,400 adult shad are needed to produce sufficient fry for stocking.

Results: Funds were used to procure the services of nine commercial fishermen to set gill nets on the spawning grounds (Rockahock Bar) of the Pamunkey River to catch American shad broodstock. The fishermen captured 586 female shad and 323 male shad. A total of 24,012,895 eggs were produced during the collection season, resulting in the production and stocking of 11.61 million shad fry. The stocking of American shad fry into the James and Pamunkey Rivers has accelerated the recovery of this species in Virginia waters.

Amount granted: \$15,000.00

2600 Washington Ave.  
3rd Floor  
Newport News, VA 23607-0756  
757-247-2247

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**Mattaponi Heritage Foundation**  
**Project #: 003-028**

Plan: As in their 2002 grant application, the Foundation requests additional funding for their shad hatchery, including the installation and rerouting of necessary plumbing to their water filtration system, two Sun Mar composting toilets, ongoing training of staff and new volunteers, and supplies and fish to continue the roe and sperm for the 2003 season.

Results: The new state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility has completed its third year of operation. More than 4.5 million fry were hatched and returned to the Mattaponi River. The hatchery housed a water quality monitoring laboratory to monitor the health of the Mattaponi River. The fund has made it possible to continue the shad expansion and support of the Mattaponi River and the Chesapeake Bay.

Amount granted: \$7,500.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**Tri-County/City Soil and Water Conservation District (Enviroscape)**  
**Project #: 003-031**

Plan: Tri-County/City SWCD seeks funding to purchase an Enviroscape model and create an educational resource packet on wetlands, restoration/conservation of the Bay, and nonpoint source pollution.

Results: The purchase of a wetlands Enviroscape model was made possible by the fund. Over 50 local teachers were reached for training and 800 students with the Enviroscape model. Resource information was distributed to teachers, youth and adults on wetlands, restoration/conservation of the Chesapeake Bay, and nonpoint source pollution.

Amount granted: \$1,500.00

4805 Carr Dr.  
Fredericksburg, VA 22408  
540-899-9492, Ext. 101

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**Potomac Conservancy, Inc.**  
**Project #: 003-032**

**Plan:** To continue with their 2002 grant, the Potomac Conservancy proposes for its "Potomac Watershed Restoration and Protection Project" to restore valuable riparian forest, educate landowners in reducing nonpoint source pollution, and illustrate the direct connection between enhancing riparian habitat, improving water quality, and bolstering aquatic wildlife communities.

**Results:** The project engaged 506 students and adult volunteers in hundreds of hours of volunteer service to plant more than 3,480 trees along key Potomac River tributaries in the Commonwealth of Virginia leading to the restoration of approximately 12 acres of riparian forest. The project also planned and installed two demonstration rain gardens at Claude Moore Regional Park in Loudoun County, Virginia. It achieved its goals to enhance riparian habitat and water quality at multiple sites in the Potomac watershed through a combined approach of riparian reforestation, bioretention techniques to protect water quality, and community outreach and education to promote watershed stewardship.

**Amount granted:** \$10,000.00

1730 North Lynn St., Suite 403  
Arlington, VA 22209  
703-276-2777, Ext. 203

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**Culpeper Soil and Water Conservation District**  
**(School Watershed Program)**  
**Project #: 003-034**

Plan: Due to the C2K agreement "providing a meaningful Bay or stream outdoor experience for every school student in the watershed before graduation, beginning with the class of 2005," the Culpeper SWCD proposes to work with one middle school in their District to plan and implement watershed experiences related to Virginia SOLs.

Results: The grant was used to provide a practical curriculum for teaching fundamental concepts related to watersheds and the ways in which land use is related to water quality and stream health. The materials focus on a study of the Mountain Run watershed, across the center of Culpeper County, Virginia. Five classroom presentations were developed and a field event planned for Culpeper Middle School's sixth grade classes as a series of meaningful watershed experiences. The project is to develop a model that other schools can emulate in meeting the requirements of the Chesapeake Bay Agreement, while providing a hands-on approach to teaching the Virginia SOL.

Amount granted: \$5,000.00

351 Lakeside Dr.  
Culpeper, VA 22701  
540-825-8591

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**Middle Peninsula Land Trust**  
**Project #: 003-035**

Plan: Middle Peninsula Land Trust proposes a "Priority Conservation Sites Project" to identify and protect critically important natural resources by working with landowners and local governments within the watersheds of the Middle Peninsula with 100 or more acres on the waterfront.

Results: The project identified critically important natural resources within the Middle Peninsula by identifying waterfront properties of 100 or more acres. The properties offer the greatest opportunity and leverage for preserving wildlife and fisheries habitat and water quality on the Chesapeake Bay. A comprehensive GIS analysis was conducted to illustrate current public policy and environmental attributes associated with identified parcels. The project accomplished multiple conservation goals through outreach to the owners of priority sites and to their local governments.

Amount granted: \$10,000.00

P.O. Box 88  
Saluda, VA 23149  
804-758-2264

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**Natural Bridge Soil and Water Conservation District**  
**Project #: 003-037**

Plan: As in their 2002 grant application, Natural Bridge SWCD proposes to send 15 local students and teachers in Rockbridge County to attend a five-day workshop during the summer of 2003 at one of the Bay's island education centers.

Results: The grant provided scholarships to send 15 local high school students from within the County of Rockbridge to attend a workshop during the summer at one of the Chesapeake Bay Foundation's island education centers. "Blue Ridge to the Bay Student Leadership Trip" was held to increase student leadership and community awareness while learning about the direct connection between the Upper James River watershed and the Chesapeake Bay.

Amount granted: \$4,200.00

30 East Preston St.  
Lexington, VA 24450-2325  
540-463-7124, Ext. 101

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**Loudoun Soil and Water Conservation District**  
**Project #: 003-045**

Plan: Loudoun SWCD proposes to continue with their Riparian Forest and Wildlife Corridor Workshop, which will include many tree-related educational activities and the planting of 1,000 trees to create riparian buffers and wildlife corridors. This year the location will be at Temple Hall Farm along a stream draining to Limestone Creek.

Results: A six acre riparian corridor was established at Temple Hall Farm in Loudoun County, Virginia creating a stream buffer that will protect 1,000 feet of Limestone Branch, a tributary of the Potomac River and the Chesapeake Bay. One hundred ninety-five students from George Mason University and Poolesville High School planted over 2,000 native trees and shrubs and installed tree shelters. Eighty-five students from Poolesville High School Global Ecology Studies Program replanted and replaced tree shelters damaged by flooding from various storm events.

Amount granted: \$2,000.00

30-H Catoctin Circle, SE  
Leesburg, VA 20175  
703-777-2075, Ext. 104

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**Northern Virginia Conservation Trust**  
**Project #: 003-048**

Plan: NVCT, partnering with Clifton Betterment Association and Audubon Naturalist Society, proposes to organize a riparian buffer enhancement project to plant 150 native trees and 100 native understory plants on a quarter-mile portion of Popes Head Creek, produce two interpretive signs outlining ways that citizens can help improve and maintain watersheds, and mail outreach letters promoting conservation easements.

Results: The grant for the "Popes Head Creek Riparian Buffer and Environmental Education" surpassed its goals. The Trust organized three successive riparian planting events along Popes Head Creek in Clifton, Virginia. The riparian plantings resulted in over 800 native trees and bushes being planted along the banks of Popes Head Creek. Environmental education goals were achieved by involving the local community in the riparian plantings, displaying at the largest community event in the area, and using paid ads and free news stories in local newspapers to distribute the information about land and water conservation.

Amount granted: \$5,662.00

4022 Hummer Rd.  
Annandale, VA 22003  
703-354-5093

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**Piedmont Environmental Council**  
**(Cedar Run Watershed)**  
**Project #: 003-058**

Plan: PEC proposes a community engagement and water resource protection project in the Cedar Run Watershed to increase conservation efforts and the acreage of protected land and encourage strong land use practices in the watershed to reduce the harmful effects of future development.

Results: The grant enabled the Piedmont Environmental Council to pursue positive forest, stream, and watershed conservation efforts in the Cedar Run watershed and helped leverage significant additional funding from other government and private sources. The additional resources have enabled PEC to establish a multi-year program in the Cedar Run area and helped increase direct financial and volunteer contributions among local landowners and residents in the watershed.

Amount granted: \$15,000.00

P.O. Box 460  
Warrenton, VA 20188  
540-347-2334, Ext. 21

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**Lanesville Heritage Preservation Society**  
**Project #: 003-096**

**Plan:** The Eastern Shore SWCD proposes for their Shoreline Stewardship Campaign to develop a positive message about the critical interface between the land and water. They seek funds for a design contest in the area high schools to create a graphic to be incorporated in shoreline signs posted at each waterfront access site and volunteers for site cleanups would be given T-shirts with the shoreline logo.

**Results:** Elementary, middle, and high school students helped buffer the streams and wetlands at Claude Moore Park. School groups, Cub Scouts, Eagle Scouts, Boy Scouts, and Park interns all pitched in to plant 151 shrubs, 67 trees, and 130 wildflowers purchased with a grant from the fund. The native plants will stabilize the soil and filter rainwater that flows across mowed park fields before it enters the streams and ponds and moves to the Chesapeake Bay. The plants will also improve the wildlife habitat and provide berries, nectar, and seeds.

Amount granted: \$5,015.00

21544 Cascades Pkwy.  
Sterling, VA 20164  
703-421-6561

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**Audubon Naturalist Society of the Central Atlantic States, Inc.**  
**Project #: 003-107**

**Plan:** ANS proposes to strengthen their Water Quality Program in Northern Virginia by developing new creative partnerships with other organizations and government agencies, train other groups to run their own monitoring programs, serve as a resource to citizens and government officials who are interested in stream conservation and water quality, and continue to monitor the health of the region's streams with the help of volunteers.

**Results:** The fund has enabled the Audubon Naturalist Society to continue the Water Quality Program in Virginia at 30 sites. In addition to collecting valuable data on stream health, their outreach activities directly engaged approximately 400 individuals in water quality education. The fund enabled ANS to continue to participate in local community and government initiatives to promote greater awareness of water quality issues for the entire Northern Virginia region.

Amount granted: \$10,000.00

8940 Jones Bridge Rd.  
Chevy Chase, MD 20815  
703-803-8400

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**Middle Peninsula Planning District Commission**  
**Project #: 003-117**

Plan: The Commission proposes for their "Special Area Management Plan" to continue to preserve the natural and economic resources of the Dragon Run watershed through commitments in the Bay 2000 Agreement and incorporate improvements to those policies into a locally-supported Watershed Management Plan.

Results: The project collected information and performed analysis critical to the development of a watershed management plan and a watershed education program for the Dragon Run, a 90,000 acre watershed dominated by forests, farms, and extensive tidal and non-tidal freshwater wetlands. The project filled missing data gaps in a comprehensive natural resources inventory; evaluated the consistency, enforceability, and effectiveness of land use policies of the four watershed counties; and distributed watershed information and offered firsthand experience with watershed issues through field workshops. The efforts achieved the goal of preserving traditional land uses and natural resources in the Dagon Run watershed.

Amount granted: \$10,000.00

P.O. Box 286  
Saluda, VA 23149  
804-758-2311

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**Chesapeake Volunteers in Youth Services, Inc.**  
**Project #: 003-118**

Plan: CBYCC proposes to conduct four weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 10 youths and 240 hours of community service.

Results: Chesapeake Bay Conservation Corps, a program of Chesapeake Volunteers in Youth Services, Inc., conducted two day and one weekend camping trips to Chippokes Park. Approximately 20 youth, needing to perform community service activities, went on these trips and conducted cleanup and maintenance projects for the park as a result of devastation from Hurricane Isabel.

Amount granted: \$1,400.00

8290 New Ashcake Rd.  
Mechanicsville, VA 23116  
804-730-3302



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**Mattaponi Heritage Foundation**  
**Project #: 004-006**

Plan: As in their 2002, and 2003 grant applications, the Foundation requests additional funding for their shad hatchery, which includes two Sun Mar composting toilets, ongoing training of staff and new volunteers, and supplies and fish to continue the roe and sperm for the 2004 season. They also seek funding for additional construction to the underside of the hatchery to protect plumbing from large debris.

Results: With the new state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its fourth year of operation, more than 4.5 million fry were hatched and returned back to the Mattaponi River. The new hatchery facility is continuing to prove to be an important center for the continued support of the Mattaponi River and the Chesapeake Bay.

Amount granted: \$15,000.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**Lord Fairfax Soil and Water Conservation District**  
**Project #: 004-024**

Plan: LFSWCD proposes to demonstrate an effective means for determining the location of nonpoint sources of pollution by utilizing Friends of the Shenandoah River's data to provide an initial indication of significant sources of such pollution.

Results: The grant information helped to carry out the effort to reduce nonpoint source pollution in the valley that impacts both the quality of life in the valley and the health of the Bay. It has made an important contribution to the knowledge of the causes of water pollution in the Shenandoah Valley that contribute to pollution problems in the Bay.

Amount granted: \$4,800.00

130 Carriebrooke Dr.  
Stephens City, VA 22655  
540-636-8919

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**Northern Virginia Soil and Water Conservation District**  
**Project #: 004-047**

Plan: NVSWCD proposes to explore relationships among the biological, habitat, and chemical parameters over time and between watersheds, and share the findings with monitors in presentations. They seek funding for data analysis.

Results: The grant enabled the Northern Virginia Soil and Water Conservation District to analyze stream monitoring data collected by volunteers from 2002 to 2005. The project explored relationships among the biological, habitat, and chemical parameters over time and among watersheds. Approximately 200 students from four high schools learned about the monitoring program and water quality trends. As part of training for a new curriculum that included watershed resources, all 150 seventh grade science teachers in Fairfax County Public Schools learned about the monitoring program, water quality data availability, and watershed projects. The results, analysis, and approach were used for presentations to approximately 60 watershed professionals and monitoring coordinators at two regional conferences.

Amount granted: \$2,000.00

12055 Government Ctr. Pkwy.  
Suite 905  
Fairfax, VA 22035  
703-324-1425

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**Chesapeake Volunteers in Youth Services**  
**Project #: 004-059**

Plan: As in their 2003 grant application, CBYCC proposes to conduct four weekend camping trips to perform environmental enhancements along the Bay. Each weekend outing will include 10 youths and 240 hours of community service.

Results: Funding from the CBRF allowed Chesapeake Volunteers in Youth Services to provide five weekend camping trips and two day trips to Chippokes State Park for approximately 55 youth. The youth were sanctioned by the court or probation officer to provide community service hours. They provided over 500 hours of service to Chippokes State Park in hurricane clean-up efforts. Projects were primarily along the shoreline to clean and remove debris as well as repair beach trails.

Amount granted: \$6,000.00

1108 E. Main St., Suite 1600  
Richmond, VA 23219-3539  
804-780-1392

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**Lake Anna Civic Association  
Project #: 004-066**

Plan: LACA seeks funding to continue to expand the implementation of a locally supported watershed management plan for the Lake Anna watershed.

Results: The funds were used for the purchase of two Hach (formerly Hydrolab) electronic instruments to very accurately measure water temperature, pH, dissolved oxygen, and conductivity in the epilimnion (down to 5 meters) throughout the lake.

Amount granted: \$4,000.00

P.O. Box 217  
Mineral, VA 23117-0217  
703-250-4239

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**Oyster Reef Keepers of Virginia  
Project #: 004-103**

Plan: As in their 2003 grant application, ORKV seeks funding for 400,000 oysters, replacement data sheets and educational materials for schools, replacement and repair materials for oyster floats and mesh bags, postage, travel, and salary. Students visit their oyster site monthly to measure oyster growth rates, quantify oyster mortality, monitor the water chemistry in their tributary, and clean and maintain their oysters and sampling equipment.

Results: The project has been successful in two ways: (1) from the habitat restoration/scientific perspective and (2) from the public education perspective. The restoration success of oyster stocking activities has been demonstrable in the past. With the project's educational component, they have been able to not only use oysters to teach students about water quality and environmental decline in the Chesapeake, but have also been able to show them in a very real sense that they have the ability to tangibly contribute to the restoration of the waterway.

Amount granted: \$16,050.00

P.O. Box 245  
Gloucester Point, VA 23062  
804-721-8806

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**Virginia Eastern Shore Land Trust, Inc.**  
**Project #: 005-014**

**Plan:** The Land Trust requests support for the staff time needed to generate comprehensive baseline reports for up to 12 new conservation easements and conduct 11 easement monitoring visits of protected properties. They also seek funds to purchase a color copier/printer, a binding machine, and conduct a landowner stewardship workshop and facilitation.

**Results:** With support from the fund, VES Land Trust has completed 12 baseline reports for conservation easement properties protected in 2005 and 2006. They also have completed the first full round of easement monitoring visits and reporting for 12 properties protected in 2003-2004. The VES Land Trust conservation program has led to meaningful protections for water quality in the Chesapeake Bay. Conservation easements on 23 farms preserve more than 20 miles of shoreline, 1,645 acres of farmland, 1,759 acres of forest, and 670 acres of wetlands.

Amount granted:      \$10,000.00

P.O. Box 1114  
Exmore, VA 23350  
757-442-5885

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**Henricopolis Soil and Water Conservation District - Va. Cooperative Extension**  
**(Smart Lawn & BayScaping)**  
**Project #: 005-019**

**Plan:** As in their 2003 grant application, Henricopolis SWCD, along with the Va. Cooperative Extension, proposes to hold several seminars throughout Henrico County that will emphasize "Smart Lawn" and "BayScaping" and the proper nutrient management of urban landscapes. Participants will be awarded a voucher which will cover the cost of a soil test of their property. They seek funds for 200 soil test vouchers, printing costs layout, and design.

**Results:** As a result of this grant, Henrico County residents have an incentive to perform a soil test before applying fertilizer. Encouraging residents to not use unnecessary fertilizers reduces nonpoint source pollution in local watersheds which contribute to the reduction of nonpoint source pollution in the Chesapeake Bay.

Amount granted:      \$1,450.00

8600 Dixon Powers Dr.  
Richmond, VA 23228  
804-501-5175

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**Piedmont Environmental Council**  
**Project #: 005-035**

Plan: PEC proposes water quality protection and the conservation of agricultural and forested lands in Madison County through the following tasks: a part-time conservation officer, creating a conservation outreach promotion committee, distributing educational materials, GIS analyses, and working towards a goal of permanently protecting 1,000 acres of land in the county during the grant period.

Results: With generous support from the fund program, the project *Conservation of Resources and Watershed Protection in Madison County, Virginia* made significant progress toward protecting and restoring riparian and other critical lands to improve wildlife habitat and water quality in Madison County's portion of the Rappahannock watershed, a subwatershed of the Chesapeake Bay watershed. PEC helped landowners permanently protect 2,069 acres in Madison County with conservation easements in 2004-2005, initiated a Madison volunteer-based stream monitoring program, held three educational easement gatherings in Madison, formed a county easement promotion committee, established a Madison County land conservation fund, developed a Madison County GIS database, and distributed dozens of easement information packets and copies of *Sources of Funds for Land Conservation: A Handbook for Landowners and Non-Profit Organizations* to Madison County landowners.

Amount granted:       \$10,000.00

P.O. Box 460  
Warrenton, VA 20188  
540-347-2334, Ext. 21

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**Loudoun Soil and Water Conservation District**  
**Project #: 005-036**

Plan: LSWCD proposes to create a collection of three exhibits called "Totally Trees" to be used at the Loudoun Arbor Day Celebration and other events like riparian tree planting field days and tours of riparian projects. They would also like to build four display panels to exhibit Arbor Day photos and Poster Contest artwork, offset the costs of a wildlife speaker, and conduct a tree planting activity in a riparian/wildlife corridor at Banshee Reeks Nature Preserve.

Results: The fund allowed Loudoun Soil and Water Conservation District to provide educational programs, exhibits and materials promoting the importance of trees, and the benefits of riparian buffers at two public events: Loudoun County and the Town of Middleburg Arbor Day events. In addition, over 950 trees and shrubs were planted at five sites with the help of 50 school students, Scout Troop #969, and numerous families at the Loudoun County Arbor Day event, establishing five one-half acres of riparian buffers that will grow to protect the water quality of Loudoun's streams and the Chesapeake Bay.

Amount granted: \$2,775.00

30-H Catocin Circle, SE  
Leesburg, VA 20175  
703-777-2075, Ext. 104

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**Headwaters Soil and Water Conservation District (Portable Shade Sheds)**  
**Project #: 005-044**

Plan: Due to a strong buffer program to fence livestock out of streams and provide the livestock with an alternate watering system, Headwaters SWCD seeks funding to purchase three portable shade sheds for livestock to help distribute manure and nutrients throughout the pasture. The sheds would further improve forage, weight gains in livestock, and also reduce pollution.

Results: The fund helped acquire a portable shade apparatus for cattle so that the riparian buffers excluding livestock from streams would not exclude the cows from shade. By having this as an alternative for existing riparian shade, Headwaters Soil and Water Conservation hopes that more farmers will enroll in programs that establish forested buffers to help make the streams on their farms cleaner and hence cleaner for all downstream.

Amount granted: \$4,829.00

P.O. Box 70  
Verona, VA 24482-0070  
540-248-4328, Ext. 3

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**Headwaters Soil and Water Conservation District (Tabletop Displays)**  
**Project #: 005-045**

Plan: Headwaters SWCD proposes to provide tabletop displays on water quality to river and watershed advocacy groups. They seek funding for five tabletop displays with travel bags and materials.

Results: The fund sponsored five tabletop displays on water quality to river and watershed advocacy groups. All of the displays have been used multiple times as of 2005.

Amount granted: \$2,720.00

P.O. Box 70  
Verona, VA 24482-0070  
540-248-4328, Ext. 3

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**Hoffler Creek Wildlife Foundation, Inc.**  
**Project #: 005-069**

Plan: Hoffler Creek proposes for their "Creek Keepers" project to conserve the natural resources at Hoffler Creek Wildlife Preserve, promote low-impact design and technology to watershed neighbors and visitors, and increase citizen participation in conservation and restoration efforts in the Bay Basin.

Results: The "Creek Keepers" program at Hoffler Creek Wildlife Preserve successfully engaged community volunteers in conservation and restoration projects that improved the environmental health of the Chesapeake Bay. The program produced a resource management plan for Hoffler Creek Wildlife Preserve, a link to real-time weather and water quality data collected at the preserve, a volunteer award designation, and greater public understanding of low-impact design and technologies. The "Creek Keepers" program laid the foundation for steady progress toward protecting the natural infrastructure needed to sustain life in the watershed.

Amount granted: \$7,500.00

4510 Twin Pines Rd.  
Portsmouth, VA 23703  
757-483-6838

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**Middle Peninsula Land Trust**  
**Project #: 005-082**

Plan: Middle Peninsula Land Trust proposes to develop a procedure to integrate the BMPs of agriculture, forestry, water quality, wetlands, and shoreline erosion into a comprehensive conservation management system. They seek funding to produce a website with a manual outlining the comprehensive land, water, and wildlife conservation management planning process, provide four examples of comprehensive conservation management plans, and conduct two educational seminars.

Results: The CBRF provided the monies for the completion of the *Landowner's Guide to Integrated Conservation Land Management*. The guide describes a process for landowners to answer a series of questions about their property, to identify their conservation values, and to establish their priorities for property management. This environmental inventory and goal-setting approach helps landowners focus on conservation initiatives most appropriate for their property. Three workshops were held for approximately 75 property owners and conservation professionals where the guide was discussed.

Amount granted: \$9,268.00

P.O. Box 585  
Mathews, VA 23109  
804-725-4622

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**Piedmont Soil and Water Conservation District**  
**Project #: 005-093**

Plan: As in past grant applications, PSWCD seeks funding to continue their rain garden bioretention demonstration sites, with one being on their grounds and the other at Fuqua Lower School.

Results: The PSWCD Stormwater Rain Garden Demonstration project evolved from a small problem-solving project into a dynamic, functioning outdoor laboratory in a schoolyard which promotes native landscaping, alternative stormwater management practices, aquatic habitat protection, and soil erosion prevention. The project provided community awareness of attractive low impact alternatives for stormwater management and the opportunity for observers to evaluate water quality protection practice for application elsewhere, expanding the future Bay protective actions of citizens throughout the watershed.

Amount granted: \$7,000.00

100-B Dominion Dr.  
Farmville, VA 23901



**Mattaponi Heritage Foundation**  
**Project #: 006-006**

Plan: As in their 02-05 grant applications, the Foundation requests additional funding for their shad hatchery, which includes two Sun Mar composting toilets, ongoing training of staff and new volunteers, and supplies and fish to continue the roe and sperm for the 2006 season. They also seek funding for additional construction to the underside of the hatchery to protect plumbing from large debris.

Results: With the new state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its sixth year of operation, another successful shad restoration season with five million fry hatched and returned to the Mattaponi River was evident. The hatchery continued to monitor the health of the Mattaponi River and hosted numerous educational tours for groups interested in the operations of the facility. The hatchery has proven to be an important center for the continued support of the Mattaponi River and the Chesapeake Bay.

Amount granted: \$10,000.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**Tidewater Oyster Gardeners Association**  
**Project #: 006-022**

Plan: TOGA proposes to obtain tetraploid and diploid oysters from VIMS' Aquaculture Genetics and Breeding Technology Center and place them in aquaculture floats at 12 sites throughout Va. waters, with varying conditions of salinity and water flow. They seek funding for supplies, the publishing of a newsletter three times, an oyster fair, and a portion of expenses for Master Oyster Gardener Course, 2006.

Results: Twelve Tidewater Oyster Gardener volunteers took part in a one and one-half year Growth and Fecundity Study with researchers from the Virginia Institute of Marine Science (VIMS). The goal was to determine differences in mortality, growth, sex, ratio, and reproductive stages between diploid (2 sets of chromosomes) and tetraploid (4 sets of chromosomes) oysters. The results of this study will be useful in maintaining potential tetraploid broodstock at VIMS.

Amount granted: \$5,556.00

8218 Hell Neck Rd.  
Gloucester, VA 23061-2528  
804-694-4407

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**Virginia Eastern Shore Land Trust, Inc.**  
**Project #: 006-032**

Plan: VES Land Trust seeks funding for the development of a database and website to support their Conservation Easement Outreach and Stewardship Programs.

Results: With support from the fund, VES Land Trust has developed its conservation database used to manage the numerous details of developing conservation easements as well as to manage stewardship responsibilities for properties now under easement. Organizing the data assists the Land Trust in defining priority areas for new outreach efforts such as properties with high conservation values on the Chesapeake Bay and its tributaries, as well as properties in close proximity to protected lands. Information from the database is shared with conservation partners in order to develop soil and water conservation plans, wildlife habitat enhancement projects, and other stewardship activities to further improve and protect the easement property.

Amount granted: \$7,500.00

P.O. Box 1114  
Exmore, VA 23350  
757-442-5885

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**Municipal Corporation of Cape Charles**  
**Project #: 007-005**

Plan: To better educate the public on the Bay's natural resources and to protect the ecosystems that sustain them, Cape Charles seeks funding to provide two informational kiosks and install two fish cleaning stations at the Harbor and Beach.

Results: The Town of Cape Charles purchased two kiosks to educate the public at the harbor and beach. The harbor kiosk provided information on how to promote a safe and clean boating experience and how to manage marine waste in an environmentally friendly way. It will also provide how to safely catch and release fish. The kiosk at the beach will educate the public on how to take care of the shoreline and how to promote Bay restoration.

Amount granted: \$6,600.00

2 Plum St.  
Cape Charles, VA 23310  
757-331-3259 ext. 12

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**Virginia Institute of Marine Science  
Center for Coastal Resources  
(Living Shorelines Education Course)  
Project #: 007-020**

Plan: The Center for Coastal Resources at VIMS proposes to develop a course curriculum that would educate shoreline project designers and contractors about the use of "Living Shoreline" designs.

Results: The goal of the project was to design the curriculum for a course to educate shoreline project designers and contractors about the use of "Living Shoreline" designs. The course stressed the reasoning behind the recommended design criteria so that participants learned why the designs functioned naturally, not just riparian zone; the wetlands; and the aquatic system. The end result was a series of three modules available on the web for self-teaching and in PowerPoint for use in a class format.

Amount granted: \$14,000.00

P.O. Box 1346  
Gloucester Point, VA 23062  
804-684-7029

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**Valley Conservation Council  
Project #: 007-044**

Plan: VCC seeks funding to support conservation easement outreach at local events and county fairs in their 11 county service area. VCC proposes to develop high quality displays specific to each of their counties, conduct volunteer training, and support local volunteer coordinators who will coordinate volunteers and help staff these events.

Results: With support from the fund and matching grants from other foundations, VCC staff and stewards created displays, distributed brochures, made presentations, and had booths at 40 local events. Outreach materials will be used at county fairs throughout the fall. The activities inform landowners of options to conserve their property, ultimately working toward the goal of protecting lands and improving water quality in the Chesapeake Bay watershed.

Amount granted: \$9,000.00

17 Barristers Row  
Staunton, VA 24401  
540-886-3541

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**Chesapeake Bay Foundation, Inc. York Chapter**  
**Project #: 007-054**

Plan: CBF proposes to measure growth, mortality, and disease prevalence in a selected strain of triploid (*Crassostrea virginica*) spat on shell grown on the bottom in the same manner as oyster planters have employed for wild oyster seed from natural settlement, determine the resistance of spat on shell seeded oysters to cow nose ray predation, and compare the costs versus yields of growing that triploid (sterile) strain with diploid (non-sterile) wild *C. virginica* spat on shell (seed oysters) grown in the above manner. They seek funding to purchase 12-15 million metamorphically competent pediveliger stage larvae, testing, travel, fuel, contractual services, loader rental, and supplies.

Results: Approximately 950,000 spat on shell were planted at a size of 4-8 mm. Sampling occurred in July 2008, and greater than 95 percent of the oysters were gone, presumably from predation by cownose rays (an oyster predator). The results of this project provide empirical evidence that spat on shell culture is not exempt from cownose ray predation. The use of triploid *C. virginica* spat on shell has great promise for the production of oysters for the shucking industry provided that hatchery capacity increases as the industry grows and the abundance of cownose rays are significantly lowered through a reduction fishery.

Amount granted: \$7,750.00

P.O. Box 643  
Yorktown, VA 23690  
804-642-5158

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**Loudoun Soil and Water Conservation District**  
**Project #: 008-015**

Plan: In an effort to reach out to landowners who do not qualify for Loudoun's current tree planting programs, Loudoun SWCD proposes for their riparian buffer seedlings project to target landowners that have less than five acres of agricultural land and have a waterway on their property. The project would provide three seedling species at no charge to applicants who complete an application form and meet the necessary requirements.

Results: Using restoration fund dollars, the Loudoun Soil and Water Conservation District was able to distribute over 12,000 trees for riparian buffer plantings. This translates to approximately 30 acres of tree plantings to improve the water quality of the Chesapeake Bay.

Amount granted: \$4,680.00

30-H Catocin Circle, SE  
Leesburg, VA 20175  
703-777-2075, ext. 106

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**Mattaponi Heritage Foundation**  
**Project #: 008-025**

Plan: As in their 02-07 grant applications, the Foundation requests additional funding for their shad hatchery, which includes two Sun Mar composting toilets, ongoing training of staff and new volunteers, and supplies and fish to continue the roe and sperm for the 2008 season. They also seek funding for additional construction to the underside of the hatchery to protect plumbing from large debris.

Results: With the state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its eighth year of operation, the Mattaponi experienced another extremely successful shad restoration season. The fund has continued to support the hatchery and the hatchery is continuing to prove to be an important center for the continued support of the Mattaponi River and the Chesapeake Bay.

Amount granted: \$15,000.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**Piedmont Environmental Council**  
**Project #: 008-037**

Plan: PEC seeks funding to undertake a long-term program to protect and preserve the Goose Creek watershed, its major tributaries, and the land that comprises the watershed. They will develop a model for protecting a watershed before it experiences irreversible deterioration and is a continuation of the two-phase project "Protecting Human Health and Water Quality in the Town of Leesburg and its watershed."

Results: A subcommittee of the Leesburg Watershed Steering Committee worked to identify a highly visible location for a riparian planting demonstration project in the Tuscarora Creek watershed. This highly visible demonstration project funded in part by the CBRF showcased efforts to reduce stormwater pollution and damaging erosion. The planting project also helped Leesburg meet its tree canopy goals, capture greenhouse gases and other airborne pollutants, create urban wildlife habitat, and beautify the downtown area.

Amount granted: \$12,500.00

P.O. Box 460  
Warrenton, VA 20188  
703-431-6941

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**Va. Tech. - Eastern Shore Agricultural Research and Extension Center**  
**Project #: 008-046**

Plan: Similar to their 1997, 1998, 2001, 2005, and 2007 grant applications on tomatoes, the Center proposes to define a suitable plant species, out of the five they will be planting, that is acceptable to growers and easily managed in order to create ground cover in and around fields utilizing polyethylene mulched beds. Their goal is to have a system in place that helps manage runoff from vegetables being grown on plasticulture along the eastern shore and Rappahannock River.

Results: The research project was implemented on three commercial tomato farms on the Eastern Shore of Virginia. Five different vegetation treatments were established between plasticulture beds. Small seeded grasses offered growers utilizing plasticulture an economical method of establishing in-row buffer strips. The establishment of these in-row strips around the periphery of a field would provide a means of slowing and filtering stormwater runoff.

Amount granted: \$5,000.00

33446 Research Dr.  
Painter, VA 23420  
757-414-0724, Ext. 15

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**Mattaponi Heritage Foundation**  
**Project #: 009-015**

Plan: As in their 02-08 grant applications, the Foundation requests additional funding for their shad hatchery, which includes two Sun Mar composting toilets, ongoing training of staff and new volunteers, and supplies and fish to continue the roe and sperm for the 2009 season. They also seek funding for additional construction to the underside of the hatchery to protect plumbing from large debris.

Results: The fund provided the continued support of the Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its tenth year of operation.

Amount granted: \$11,000.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**Alliance for the Chesapeake Bay  
(RiverTrends Program)  
Project #: 009-046**

Plan: As in their 2005 grant application, Alliance seeks funding for their "RiverTrends" program, which is to provide environmental education to increase public awareness of the Bay and the collection of water quality data by citizen volunteers within the Bay. For this grant cycle, they propose to enhance the program by working with monitoring groups to effectively use the volunteer-collected data for education and interpretation.

Results: With funding from this CBRF grant, the Alliance enhanced the *RiverTrends* (volunteer water quality monitoring) program by recruiting new volunteers, recertifying current volunteers, updating the online database, and working with monitoring groups to use the volunteer-collected data. With Friends of Stafford Creeks, the Alliance helped develop an online map of monitoring stations with associated data to educate volunteers and the general public on water quality issues in Stafford County. With Friends of the Rappahannock, the Alliance developed a Hazel Run watershed report that focuses on bacteria issues to distribute to volunteers and stakeholders.

Amount granted: \$18,000.00

530 E. Main St., Suite 501  
Richmond, VA 23219  
775-0951

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**Friends of Chesterfield's Riverfront  
Project #: 009-049**

Plan: Friends proposes to establish the "Chesterfield WaterTrends: High School Program - Water Quality Monitoring for Students and Teachers," supplement and enhance teacher training, provide students with outdoor field experiences, provide data use and management assistance and training, and teach students and educators about pollutants and the Bay.

Results: The project provided high school students with hands-on environmental or watershed experiences through water quality monitoring. Through this grant, Friends of Chesterfield's Riverfront modified their current Chesterfield WaterTrends Program and adapted it for use in a high school classroom setting. Three schools were engaged in water quality monitoring, four field trips were held, and over 250 Advanced Placement Environmental Science students received water quality monitoring training and an outdoor watershed experience.

Amount granted: \$8,100.00

P.O. Box 2158  
Chesterfield, VA 23832

**Virginia Save Our Streams Program  
Virginia Division of the Izaak Walton League  
Project #: 009-050**

Plan: As in their 97-08 grant applications, VA SOS proposes to continue to train interested citizens to be volunteer water quality monitors using a well-established biological method of monitoring. They will also provide on their website general information on water resources in Va. and water quality monitoring and data.

Results: This is a continuation of the program provided by VA SOS to train interested citizens to use a scientifically valid method of water quality monitoring. An additional benefit of VA SOS is the public-private partnership that they are building to support citizen stewardship activities in the Commonwealth.

Amount granted: \$10,000.00

P.O. Box 8297  
Richmond, VA 23226  
804-615-5036

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**Rockfish Valley Foundation  
Friends of the Rockfish Watershed  
Project #: 009-058**

Plan: The Foundation proposes to study the Tye River and will provide a complete log of the health of the water, surrounding infrastructure, the condition of the banks, and adjoining riparian buffers. The principal investigators will compile a photographic record of the river that can be used in future educational programs. Statistics on annual rainfall, information on flooding, and other information from outside sources will complement the study.

Results: The CBRF provided the funds for a study of the Tye River. The survey was a visual account of the state of the Tye River. Although the overall state of the river appears to be in fair health, there were many areas that could use extra attention and further investigation. Riparian buffer zones on agricultural fields were the area in need of restoration efforts.

Amount granted: \$4,000.00

P.O. Box 235  
Nellysford, VA 22958  
434-361-2251



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**Fairfax County Park Authority**  
**Project #: 009-061**

**Plan:** As in their 2005 and 2006 grant applications, Fairfax County Park Authority proposes to continue a watershed stewardship in the community through teaching monitoring methods of stream health and showing human impacts on watershed health at their Cub Run RECenter and Hidden Pond Nature Center. Since there is no funding available for additional equipment needed to facilitate a new watershed education program, nor funds available to buy equipment for their riparian buffer citizen science program, they seek funding to purchase critical equipment.

**Results:** This project is a continuation of watershed stewardship in Fairfax County. The monitoring of the riparian buffer restoration project, a project that has organized environmental groups, nearly 1500 individuals, and the Park Authority together to install 8,400 plants along the streams of Fairfax County, continues with this grant. The monitoring component purchased with this funding will provide the ability to nearly continuously monitor water temperature for three more years.

**Amount granted:**      \$10,440.00

12055 Government Ctr. Pkwy.  
Suite 927  
Fairfax, VA 22035-1118  
703-324-8586

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**Friends of the Rappahannock  
(Citizen Monitoring)  
Project #: 009-071**

Plan: Similar to their 2005 and 2008 grant applications, FOR proposes to continue to provide for environmental education that will increase public awareness and knowledge about the Rappahannock and the Bay, collect water quality data in the Central Rappahannock region by citizen volunteers, and build upon their current framework for a long-term water quality management program. New for this grant cycle, FOR will engage at-risk youth and work with them to become good stewards. Further, since the Hazel Run watershed is listed as an impaired stream due to bacteria levels that exceed the state standards, they will establish a Hazel Run Task Force to work and share information and develop solutions.

Results: FOR provided environmental education to increase public awareness and knowledge about the Rappahannock River, Hazel Run, and the Chesapeake Bay and the water quality issues that affect watershed ecosystems. New volunteers were trained to be certified water quality monitors and existing monitors were recertified. They collected high quality and scientifically useful water quality data from 12 different sites distributed throughout the Central Rappahannock Basin, doubling the number from the previous year.

Amount granted:       \$10,000.00

P.O. Box 7254  
Fredericksburg, VA 22404  
540-373-3448

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**Friends of Stafford Creeks**  
**Project #: 009-077**

Plan: Similar to their 2005, 2007, and 2008 grant applications, FOOSC proposes to continue to establish and operate 12 water quality monitoring sites divided between three major Stafford County watersheds, while developing volunteer and citizen awareness of the importance of water quality. New for this grant cycle, FOOSC will work with Alliance for the Chesapeake Bay to produce a "Report Card" showing stream quality. This will involve recasting FOOSC's data into a user-friendly format that will educate citizens and elected officials about the condition of local waters.

Results: The grant has allowed Friends of Stafford Creeks to reach many constituencies. The monitors have become more informed about and better spokespersons for clean water, while supporting the Department of Environmental Quality's identification of impaired waters. Baseline data for 12 Stafford sites have been added to the pool of information. A compilation of eight years of collected data is available in graph and worksheet format. Community leaders have learned of the work conducted under this grant and its relevance to the water quality in Stafford as well as the Chesapeake Bay.

Amount granted:       \$2,985.00

38 Dobe Point Rd.  
Stafford, VA 22554  
540-657-6674

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**Shenandoah Valley Battlefields Foundation**  
**Project #: 009-081**

Plan: SVBF proposes for their "Fay Spring Culvert Removal Mitigation" project to control livestock access in Redbud Run, as well as restoring the natural drain flow of the spring creek, in order to prevent sedimentation buildup and cattle erosion, all of which contributes to the degradation of trout spawning habitat. They seek funding to install a watering trough on the Fay Spring property, as well as removing the existing culvert, and replacing it with a fenced and gated hardened crossing.

Results: The primary goal of the Fay Spring Culvert Removal Mitigation project was to restore the natural flow regime and allow unrestricted passage of brook trout to upstream spawning habitat. The CBRF helped the Battlefields Foundation in securing a water source outside of Redbud Run on the northern side of the Fay Spring property for cattle to graze on the property and at the same time restoring natural flow and trout spawning habitat conditions by removing a problematic culvert. SVBF now has a fenced hardened crossing area, three farm gates, and over 550 feet of new woven wire fencing to prevent cattle from overuse and watering in Redbud Run.

Amount granted:       \$10,000.00

P.O. Box 897  
New Market, VA 22844  
540-740-4545

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**Oyster Reef Keepers of Virginia, Inc.**  
**Project #: 009-086**

Plan: As in their 03-06 grant applications, ORKV seeks funding for 400,000 oysters and materials for their "Schools Restoring Oysters to the Chesapeake" program and to train 40 teachers to fully integrate the meaningful field component of the program into their classroom through their Oyster Restoration Training Institute.

Results: With the grant funds, 400,000 baby oysters were distributed to 150 Virginia school teachers and their 7,500 students. Schools raised and studied the oysters throughout the school year. In the spring, students transplanted their oysters to sanctuary reefs in Virginia tributaries, where the oysters will spawn and provide offspring to revitalize future oyster generations in the Bay. Funds were also used to train 42 teachers through their Oyster Restoration Training Institute, thus giving teachers the tools and instruction that they need to integrate the meaningful field component of the S-ROC program, which is a premier tool for teaching students about estuarine ecology while involving them in a powerful environmental restoration and stewardship activity. The fund has helped achieve a 10-fold increase in the oyster population.

Amount granted: \$12,500.00

P.O. Box 55201  
Virginia Beach, VA 23471  
757-460-1200

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**Lake Anna Civic Association**  
**(Water Monitoring)**  
**Project #: 009-089**

Plan: To continue with their water quality monitoring program, LACA seeks partial funding to cover the cost of laboratory analyses and equipment.

Results: The funding supported the continuation of water monitoring. The fund covered the cost of laboratory analyses and equipment. LACA has one of the few fully accredited Level 3 citizen water quality monitoring programs in the Commonwealth.

Amount granted: \$5,000.00

P.O. Box 217  
Mineral, VA 23117-0217  
804-379-9070

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**Interstate Commission on the Potomac River Basin**  
**Project #: 009-091**

Plan: As in their 1997, 2000, 2001, 2006, 2007, and 2008 grant applications, ICPRB proposes to continue with the restoration of the American shad populations to the Rappahannock and Potomac Rivers and enlist approximately 10 northern Va. schools in the effort, which also includes five field trips on their vessel the "Half Shell."

Results: Seventeen Northern Virginia schools participated in the Schools in Schools American Shad Restoration Program through support from the CBRF. From these 17 schools, over 500 students operated 24 classroom hatcheries, raising and releasing approximately 19,350 shad fry into the Potomac River. Approximately 350 students were able to travel to either the Occoquan National Wildlife Refuge or Old Angler's Inn near Great Falls to personally release their fry. Under this program, a total of 3,246,000 American shad were stocked into the Rappahannock and Potomac Rivers in 2009.

Amount granted: \$15,000.00

51 Monroe St., Suite PE-08  
Rockville, MD 20850  
301-984-1908; Ext. 106

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**Reedville Fishermen's Museum**  
**Project #: 010-003**

Plan: The Museum proposes to establish an oyster farm on Cockrell's Creek for the use of the staff and volunteers with teachers, students, visitors, and the community.

Results: The CBRF has been used to establish a permanent and portable oyster exhibit at the Reedville Fishermen's Museum. Purchases include seed oysters and cages, oyster tonging station and nippers, permanent explanatory signage, and educational supplies for oyster programs both on and offsite. Part of grant funds have gone to programs held at the Reedville Fishermen's Museum.

Amount granted: \$1,260.00

P.O. Box 306  
Reedville, VA 22539  
804-453-6529

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**Mattaponi Heritage Foundation**  
**Project #: 010-008**

Plan: As in their 02-09 grant applications, the Foundation requests additional funding for their shad hatchery, which includes two Sun Mar composting toilets, ongoing training of staff and new volunteers, supplies and fish to continue the roe and sperm for the 2010 season, and additional construction to the underside of the hatchery to protect plumbing from large debris.

Results: The grant continues to support the Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its 10th year in operation. The hatchery facility is continuing to prove to be an important center for the continued support of the Mattaponi River and the Chesapeake Bay.

Amount granted: \$7,500.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**City of Poquoson - City Manager's Office**  
**Project #: 010-036**

Plan: The City of Poquoson seeks funding for the installation of a second pump-out facility to be located at the city docks at Messick Point. This would allow the boaters free public access to handle septic waste rather than dumping it into the Bay.

Results: The City of Poquoson used the funding to install the sewer pump-out station for pleasure boats located at the City's Messick Point Pier.

Amount granted: \$2,090.00

500 City Hall Ave.  
Poquoson, VA 23662  
757-868-3000

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**Earth Sangha, Inc.**  
**Project #: 010-038**

Plan: Earth Sangha seeks to improve and extend the patches of incipient riparian forest and meadow created along the streams of Fairfax Co. through the county's "Riparian Buffer Restoration" project. Their proposed project will substantially enrich 10 acres of this new buffer, bordering one mile of stream channel. It will also create a basic maintenance program for all the buffer plantings and will benefit the county's streams, adjoining lands, and the thousands of people who use the parks.

Results: The Earth Sangha's stream buffer restoration project maintained and improved 19 stream buffer and storm pond sites in Fairfax, Arlington, and Rappahannock Counties, and the City of Alexandria. Volunteers installed over 3,000 native trees, shrubs, and herbaceous (non-woody) plants along about 1.7 miles of streambank or other shoreline in areas amounting to 18 acres. Volunteers also worked to control invasive alien plants and installed tree protectors around saplings to ward off deer browsing. The project invested over 3,600 hours of volunteer labor in stream buffer improvement.

Amount granted:       \$7,500.00

10123 Commonwealth Blvd.  
Fairfax, VA 22032  
703-764-4830



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**Friends of the Occoquan  
Project #: 010-039**

Plan: Similar to their 02-09 grant applications, FOTO proposes to continue to preserve and maintain the Occoquan watershed by recruiting volunteers for a Fall 2009 and Spring 2010 cleanup, install international bilingual signs at two parks/marinas and the Town of Occoquan, prepare 20 Wetland models into Spanish and distribute to schools and other organizations, and present two bilingual 30 second Public Service Announcements to local radio and TV stations for broadcasting in the Washington Metropolitan area.

Results: A total of 314 volunteers participated in cleanup efforts, removing four tons of debris and trash from the Occoquan watershed. Students, community groups, and others are now involved in maintaining the watershed. Continuous watershed educational presentations to different groups, TV broadcasting of FOTO's programs, and youth interest foster the awareness of the importance of preserving the integrity of the Chesapeake Bay.

Amount granted: \$3,500.00

P.O. Box 1452  
Woodbridge, VA 22195  
703-624-7124

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**Va. Tech - Eastern Shore Agricultural Research and Extension Center  
Project #: 010-091**

Plan: Similar to their 1997, 1998, 2001, 2005, 2007, 2008, and 2009 grant applications on tomatoes, the Center proposes to define an appropriate nutrient management program for corn, wheat, tomatoes, potatoes, and snap beans, which will reduce overall nutrient loads into sensitive waterways. Successful implementation of innovative fertilizer recommendations and practices will reduce the concentrations of nitrogen and phosphorus entering groundwater via leaching and entering the Bay through runoff.

Results: Nitrogen and phosphorus are the two major nutrients of concern in the Chesapeake Bay watershed for accelerated eutrophication and algae blooms and are also required in high quantities by plants for food production. Over 1,402 farmers, agency personnel, extension agents, and a group of high school students were educated on the benefits of using proper nutrients. The principles of the 4-Rs were stressed, the right rate, right source, right method, and right timing, to increase overall fertilizer nutrient.

Amount granted: \$7,776.00

33446 Research Dr.  
Painter, VA 23420

**Mattaponi Heritage Foundation**  
**Project #: 011-007**

Plan: As in their 02-10 grant applications, the Foundation requests additional funding for their shad hatchery, which includes two Sun Mar composting toilets, ongoing training of staff and new volunteers, supplies and fish to continue the roe and sperm for the 2011 season, and additional construction to the underside of the hatchery to protect plumbing from large debris.

Results: The fund continued to support the Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its 11th year of operation. More than two million fry were hatched and returned to the Mattaponi River. The hatchery continued to be an important center for the support of the Mattaponi River and the Chesapeake Bay.

Amount: \$5,000.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**Northern Neck Land Conservancy, Inc.**  
**Project #: 011-020**

Plan: With numerous letters of support, NNLC proposes for their two year project to preserve an additional 2,108 acres of Cat Point Creek, which will result in prevention of water pollutants, protection of habitat for varied flora and fauna, keep the forest cover intact, preserve viewsheds for five bay gateway sites, and protect an important bird area as designated by National Audubon Society.

Results: The Cat Point Creek Special Project is now in its second year of implementation. Through educational outreach activities and private meetings, additional properties are working on placing conservation easements. NNLC has now achieved the unprecedented arrangement of having co-hold agreements for placing conservation easements in all five counties that it serves, including the Cat Point Creek Project. The NNLC received the Scenic Virginia Award for land conservation and the Governor's Environmental Excellence Silver Medal Award in land conservation.

Amount: \$10,000.00

P.O. Box 125  
Lancaster, VA 22503  
804-462-0979

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**Friends of the Occoquan  
Project #: 011-022**

Plan: Similar to their 02-10 grant applications, FOTO proposes to continue to preserve and maintain the Occoquan watershed by recruiting volunteers for a Fall 2010 and Spring 2011 cleanup and install international bilingual signs at two parks/marinas and the George Washington Parkway/Chain Bridge/Potomac River. Also, NVRPA has requested six more signs and the Town of Occoquan two more. FOTO further proposes to prepare 20 Wetland models into Spanish and distribute to schools and other organizations and present two bilingual 30 second Public Service Announcements to local radio and TV stations for broadcasting in the Washington Metropolitan area.

Results: The grant supported the Fall 2010 Occoquan Cleanup; Spring 2010 Cleanup; installation of two international/bilingual signs in the Town of Occoquan; Prince William Earth Day participation; continuation of the campaign of public education and awareness of watershed conservation issues by broadcasting PSAs and videos on public television; and water conservation and watershed preservation material was presented to several youth groups.

Amount: \$4,000.00

P.O. Box 1452  
Woodbridge, VA 22195  
703-624-7124

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**Eastern Shore of Virginia Resource Conservation and Development Council  
Project #: 011-024**

Plan: With letters of support, the ESRC&DC proposes the installation of approximately 175' of "living shoreline" erosion control measures at Camp Occohannock with the assistance of community volunteers and youth attending the summer ecology camp sessions in the Summer 2011.

Results: The project supported installation of approximately 175 feet of "living shoreline" erosion control measures at Occohannock on the Bay with the assistance of community volunteers. The goal was to protect eroding banks on three interconnected tidal ponds on the property with the establishment of a vegetated marsh fringe that will decrease the amount of sediment entering the Bay through bank erosion and that will help trap sediments in site runoff. A second goal was to build better understanding of "living shoreline" concepts on the Eastern Shore through demonstration of design, techniques, and implementation.

Amount granted: \$7,260.00

22545 Center Pkwy.  
Accomac, VA 23301

**Science Museum of Western Virginia**  
**Project #: 011-037**

Plan: Continuing with their 2010 grant application, the Science Museum proposes to connect the "Living River Exhibit" with their saltwater tank to make a strong connection between the headwaters and the Bay. In order to make the connection, they seek funds to install a "boardwalk" that would serve a dual purpose of concealing the life support systems for the Living River tanks while transporting visitors from the headwaters to the tidewaters. The boardwalk would pass between two exhibits and will feature a diorama scene of the tidewater area.

Results: With the materials provided through this grant, the Museum was able to enhance *Living River* to include a new *Headwaters to the Bay* exhibit as part of their Reinvention Campaign. Specifically, the grant funded installation of a "boardwalk" and creation of a Tidewater diorama that physically draws a connection for the visitor between the *Living River* exhibit and *Chesapeake Bay Tank*.

Amount granted:      \$6,500.00

One Market Square, 4th Floor  
Roanoke, VA 24011  
540-857-4396

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**Capital Region Land Conservancy, Inc.**  
**Project #: 011-050**

Plan: As in their 2010 grant application, CRLC proposes to implement five program activities to educate landowners, government officials, and community members about the importance of conserving land to protect water quality and to facilitate the donation of conservation easements on lands with high conservation value and that impact water quality. \$20,000.00 of the requested funds are for the staff.

Results: The fund's support allowed CRLC to complete a number of the key education and outreach components of the *Our Land and Water* program. These have specifically included the printing and publication of two educational newsletters sent to over 500 area residents, as well as a targeted publication mailed to nearly 300 large landowners in a high value conservation area. CRLC's efforts as part of the *Our Land and Water* program resulted in direct contact with over 1,000 residents of the Richmond region, helping to educate and inform how land conservation tools and practices can directly impact not only the preservation of the lands but positively impact the conservation of vital rivers, streams, and the Chesapeake Bay.

Amount granted: \$5,000.00

P.O. Box 17306  
Richmond, VA 23226  
804-370-6808

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**Friends of the Rappahannock (Christchurch School)**  
**Project #: 011-058**

Plan: Continuing with their 2009 and 2010 grant applications, FOR, working with Christchurch, seeks funds to grow a sanctuary reef in the Rappahannock River away from the school waterfront and have the ability to move their own spat on shell on a work platform (pontoon barge), increase the number of oysters grown to 400,000, expand the can recycling program to the greater community, continue the "Cans for Oysters" program by including the entire student body, expand the educational and stewardship impact by engaging community volunteers in three volunteer workdays, host a backyard oyster gardening workshop for tidal landowners where participants will leave with equipment and oyster seed to start on their docks, and distribute juvenile oysters at TOGA workshop held on the school campus in May.

Results: The Christchurch School Oyster Program continued to grow by being a source for adult oysters, spat on shell, Taylor floats, and seed. They were also able to buy with this grant a small barrel shaker that greatly improved the sorting of small seed for grow out purposes. With the help of the fund, Christchurch School was able to increase their oyster productivity and increased the health of the Rappahannock River and the Chesapeake Bay.

Amount granted:       \$3,400.00

3219 Fall Hill Ave.  
Fredericksburg, VA 22401  
540-373-3448, ext. 112

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**Loudoun Soil & Water Conservation District  
(Riparian Buffer Planting Workshops)  
Project #: 011-074**

Plan: Continuing further with their grant applications of 1998, 1999, 02-04, and 2010, Loudoun SWCD seeks funding for their two "Riparian Buffer Planting Workshops." The workshops will involve students, government agency staff, and local citizen groups in establishing five acres of forested riparian buffers. Participants will have the opportunity to learn about the values of riparian buffers while being involved in planting native trees, shrubs, grasses, and legumes.

Results: The fund allowed the District and partners to conduct four riparian buffer planting workshops. Over 1,220 people participated in successfully establishing native vegetation on 6.5 acres of riparian buffers on four streams in Loudoun County, Plum Run, Panther Skin Creek, Rickards Creek, and a Little River tributary. Hands-on participation resulted in planting over 1,000 trees and shrubs and 100 pounds of native grass. The educational components of the workshops helped students gain an appreciation and understanding of the benefits of forested riparian buffers and their role in the long-term improvement of water quality for the Chesapeake Bay and its tributaries.

Amount granted:       \$2,600.00

30-H Catocin Circle, SE Suite H  
Leesburg, VA 20175  
703-777-2075

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**Clean Virginia Waterways  
Longwood University  
Project #: 011-086**

Plan: As in their 2003 and 2010 grant applications, CVW seeks funds for the "2011 International Coastal Cleanup in Virginia," which is a project to increase public awareness and knowledge of Va.'s watersheds by involving volunteers in removing solid waste debris and litter from beaches and the tributaries to the Bay.

Results: Thanks in part to support from the CBRF more than 6,000 volunteers removed 295,000 pounds of trash from Virginia's rivers and beaches as part of "Clean Virginia Waterways." Volunteers also collected valuable data about the trash they found, data that are used by many cities as they deal with stormwater runoff issues. The Virginia Waterways Cleanup has been successfully organized by Clean Virginia Waterways since 1995.

Amount granted:       \$11,000.00  
                                  Dept. of Natural Sciences, Stevens 113  
  201 High St.  
  Farmville, VA 23909  
  434-395-2602

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**County of Frederick Recycling  
Project #: 011-098**

Plan: Frederick County Recycling seeks funding for 12 "Chesapeake Critters" assemblies for grades 3-5. "Chesapeake Critters" introduces the vast Bay estuary through the presentation of live animals such as blue crabs, oysters, and mud crabs. They seek further funding for 100 bulletin board kits, which they will develop and distribute to all elementary schools, focusing on watersheds and various forms of nonpoint source pollution and water conservation tips.

Results: The grant made it possible for 2,500 elementary school pupils in third through fifth grades to learn about challenges facing the Bay and what they can do about it. Pupils got to see horseshoe crabs, flounders, and oysters. School administrators readily signed up for a grant-funded, curriculum-based program which brought the Bay alive for their students and complimented in-class instruction. The message of Bay conservation was extended throughout the community via the media, ongoing educational efforts, and permanent signage at recycling centers across Frederick County.

Amount granted:       \$4,200.00  
  107 N. Kent St.  
  Winchester, VA 22601



**Piedmont Soil and Water Conservation District**  
**Project #: 012-010**

Plan: Piedmont SWCD seeks funding to have 16 pet waste stations installed in public spaces across 14 counties in Va. to help reduce pet waste nonpoint source pollution.

Results: The CBRF grant made it possible for the Piedmont Soil and Water Conservation District to facilitate the installation of 16 pet waste stations in four Virginia counties. The project successfully reduced the delivery of urban nonpoint pollution in the watershed, increased the technical assistance capability in three conservation districts, and increased urban partner understanding of nutrient management and the cost-share concept.

Amount granted: \$2,700.00

100-B Dominion Dr.  
Farmville, VA 23901  
434-392-3782, ext. 131

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**John Marshall Soil and Water Conservation District**  
**Project #: 012-015**

Plan: John Marshall SWCD seeks funding to establish some BMPs on the Fauquier Education Farm by installing a hardened crossing, erecting some sample streambank fencing, and planting a small riparian buffer, which would greatly enhance the educational programming available at the farm.

Results: Funds were used to install a hardened crossing for cattle, build streambank fencing, and plant a riparian buffer on Turkey Run in Fauquier County. As a result of the grant, the John Marshall SWCD successfully oversaw the construction of the hardened access, fencing, and planting of the riparian buffer. The District continues to use this project for educational programs and to showcase conservation practices to interested landowners.

Amount granted: \$4,650.00

98 Alexandria Pike, Suite 31  
Warrenton, VA 20186  
540-347-3120, ext. 3

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**Mattaponi Heritage Foundation**  
**Project #: 012-023**

Plan: As in their 02-11 grant applications, the Foundation requests additional funding for their shad hatchery, which includes two Sun Mar composting toilets, ongoing training of staff and new volunteers, supplies and fish to continue the roe and sperm for the 2012 season, and additional construction to the underside of the hatchery to protect plumbing from large debris.

Results: With the state of the art Mattaponi Indian Reservation Shad Hatchery and Marine Sciences facility completing its 12th year of operation, the Mattaponi people experienced another successful shad restoration season. More than two million fry were hatched and returned back to the Mattaponi River. The hatchery housed a water quality monitoring laboratory to monitor the health of the Mattaponi River and hosted numerous educational tours for groups interested in the operations of the facility.

Amount granted: \$5,000.00

1467 Mattaponi Reservation Circle  
West Point, VA 23181  
804-769-4508

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**City of Colonial Heights, Virginia**  
**Department of Planning and Community Development**  
**Project #: 012-046**

Plan: As in their 2011 grant application and with letters of support, the City proposes for their "Appomattox River Shoreline Restoration" project, which is part of Roslyn Landing Park, to create a permanent vegetative stabilization edge along the shoreline, provide pedestrian access to the river and an attractive setting for the continuation of the trail system, and insure that vehicle traffic will not impact the area. For the 2012 grant cycle, they seek funds for plants only.

Results: The funds were used for "Shoreline Restoration" of the Appomattock River at Roslyn Landing Park in the City of Colonial Heights. The funding was to be used for the purchase of planting materials. This grant allowed the city working with volunteers to provide plantings along the Appomattock River in a new city park that has become very popular due to its river access, walking trail, and unique location.

Amount granted: \$4,860.00

201 James Ave.  
Colonial Heights, VA 23834  
804-520-9275

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**Clean Water Project, Inc.**  
**Project #: 012-062**

Plan: CWP's goal is environmental stewardship, specifically to obtain ownership of created wetlands and stream mitigation sites in order to protect and conserve them, which is accomplished through their "Plant-a-Tree," "Bird Box," and "Green Team" projects. CWP seeks funding to continue their projects and to expand to Ritchie Road Wetland Mitigation Bank in Fauquier Co. and the Hepler, Ausley, and Miller Stream Mitigation Sites in Prince William Co. They seek further funds to expand their public awareness and education efforts in 2012.

Results: The grant enhanced the viability of created wetlands and stream mitigation sites in Prince William County, specifically at Foggy Bottom 1 Wetland Bank, Miller Stream Mitigation Bank, and Ritchie Road Wetland Bank. The project planted 75 three gallon-sized oak and sycamore trees. They installed 23 bird and bat nesting boxes in the same protected areas. They purchased various educational and promotional print materials to increase community awareness and redesigned their website to make it more educational and to promote the specialty license plate sales program.

Amount granted: \$5,738.76

6799-A Kennedy Rd.  
Warrenton, VA 20187  
703-932-0124

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**Culpeper Soil and Water Conservation District (Rain Gardens)**  
**Project #: 012-070**

Plan: Culpeper seeks funding for the installation of eight micro bioretention areas (rain gardens), which is two per conservation district over a two year period. They will reapply next year for the remainder of the funds to complete the project.

Results: The project implemented a series of four rain gardens across four soil and water conservation districts, which are the active member districts of the Virginia Association of Soil and Water Conservation District Urban Committee. The demonstration rain gardens would be utilized to showcase both the opportunity for retrofit landscapes to benefit the Bay and also to help initiate the new Virginia Conservation Assistance Program. All restoration funds were utilized for on-the-ground practices; machine time and materials (soil media, compost, plants, seeds, lime, mulch) soil tests, and signage.

Amount granted: \$7,550.00

351 Lakeside Dr.  
Culpeper, VA 22701  
540-825-8591

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**Va. Tech - Hampton Roads Agricultural Research and Extension Center**  
**Project #: 012-071**

Plan: In an effort to create a greater awareness of the connection between actions on land and water quality, the Va. Tech's HRAREC seeks funding for an expansion of its buffer demonstration garden. The funding will assist the purchasing and installing of the floating wetlands, preparing and installing the stabilization plantings on the pond, and for interpretational signage at the buffer demonstration garden.

Results: The grant went to the bank stabilization with layered planting part of the expansion project, which encompassed approximately 130 feet of shoreline and bank. Virginia Cooperative Extension City of Virginia Beach Master Gardener Water Steward volunteers, under the direction of Dr. Laurie Fox, installed the coir logs and plantings as part of their training. They donated 210 volunteer hours of matching support for the grant. Plant survival was 95 percent. The pond bank was successfully stabilized.

Amount granted:       \$4,000.00

1444 Diamond Springs Rd.  
Virginia Beach, VA 23455  
757-363-3807

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**Loudoun Soil and Water Conservation District**  
**Project #: 012-099**

Plan:3 Continuing further with their grant applications of 98-99, 02-04, and 10-11, Loudoun SWCD seeks funding for their two "Riparian Buffer Planting Workshops." The workshops will involve students, government agency staff, and local citizen groups in establishing five more acres of forested riparian buffers. Participants will have the opportunity to learn about the values of riparian buffers while being involved in planting native trees, shrubs, grasses, and legumes.

Results: The CBRF allowed Loudoun Soil and Water Conservation District and partners to conduct two riparian buffer planting workshops. Five acres of farmland were planted to create riparian buffers that will significantly improve water quality of Beaverdam Creek and South Fork Catoclin Creek in Loudoun County. Participants learned about the values of riparian buffers while being actively involved in planting native trees, shrubs, and grasses. The workshops helped students gain an appreciation and understanding of the benefits of forested riparian buffers and their role in the long-term improvement of water quality for the Chesapeake Bay and its tributaries.

Amount granted:       \$2,600.00

30-H Catoclin Circle, SE  
Suite H  
Leesburg, VA 20175  
571-918-4530, ext. 104

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**Hoffler Creek Wildlife Foundation**  
**Project #: 012-102**

Plan: HCWF proposes for their "Creek Keepers Diet for Hoffler Creek" project to reduce enterococci and other pollutants in the creek to levels that are safe for all recreational activities and to foster environmental stewardship of the creek and the Bay through public awareness, information, and action.

Results: The "Creek Keepers Diet" provided Hoffler Creek Wildlife Foundation with the tools necessary to develop a public service campaign to provide information and action guidelines to improve water quality in the Chesapeake Bay and its tributaries, the James River, and Hoffler Creek. The information for this campaign was shared through a series of neighborhood parties that targeted watershed neighborhoods to personally engage local families in the improvement of water quality in the Chesapeake Bay. By providing watershed residents with information and opportunity, HCWF helped to improve awareness and provide families with the sustainable practices needed to improve the overall health of the Bay.

Amount granted:      \$1,500.00

4510 Twin Pines Rd.  
Portsmouth, VA 23703  
757-483-6838

# FINANCIAL SUMMARIES

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## 2000

Received 86 proposals requesting funds in excess of \$1.1 million for the \$342,557 in the Fund.

In 2000, the Chesapeake Bay Restoration Advisory Committee recommended grants for 56 applicants, totaling \$341,811.

\* 56 recipients were approved by the General Assembly, totaling \$341,811 awarded.

Total: \$341,811.30

Max: \$30,000      Min: \$500

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## 2001

Received 100 proposals requesting funds in excess of \$1.5 million for the \$441,343 in the Fund.

In 2001, the Chesapeake Bay Restoration Advisory Committee recommended grants for 62 applicants, totaling \$440,849.

\* 62 recipients were approved by the General Assembly, totaling \$440,849 awarded.

Total: \$440,849.30

Max: \$30,000      Min: \$250

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## 2002

Received 110 proposals requesting funds in excess of \$1.9 million for the \$444,000 in the Fund.

In 2002, the Chesapeake Bay Restoration Advisory Committee recommended grants for 68 applicants, totaling \$442,243.

\* 68 recipients were approved by the General Assembly, totaling \$436,643.

\* 4 recipients declined funds approved by the General Assembly, totaling \$7,850.

Total: \$428,792.70

Max: \$40,000      Min: \$350

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**2003**

Received 119 proposals requesting funds in excess of \$1.6 million for the \$371,000 in the Fund.

In 2003, the Chesapeake Bay Restoration Advisory Committee recommended grants for 61 applicants, totaling \$370,879.

\* 61 recipients were approved by the General Assembly, totaling \$370,879.

Total: \$370,878.95

Max: \$28,478            Min: \$500

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**2004**

Received 113 proposal requesting funds in excess of \$1.4 million for the \$468,000 in the Fund.

In 2004, the Chesapeake Bay Restoration Advisory Committee recommended grants for 61 applicants, totaling \$467,907.

\*61 recipients were approved by the General Assembly, totaling \$467,907.

\* 1 recipient declined funds approved by the General Assembly, totaling \$15,500.

Total: \$452,406.97

Max: \$30,000            Min: \$965

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**2005**

Received 96 proposals requesting funds in excess of \$2.2 million for the \$439,433 in the Fund.

In 2005, the Chesapeake Bay Restoration Advisory Committee recommended grants for 54 applicants, totaling \$439,434.

\* 54 recipients were approved by the General Assembly, totaling \$439,434.

Total: \$439,433.50

Max: \$28,000            Min: \$400

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**2006**

Received 84 proposals requesting funds in excess of \$1.2 million for the \$351,741 in the Fund.

In 2006, the Chesapeake Bay Restoration Advisory Committee recommended grants for 46 applicants, totaling \$352,021.

\* 47 recipients were approved by the General Assembly, totaling \$352,021.

Total: \$352,021.00

Max: \$18,462            Min: \$1,000



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**2007**

Received 105 proposals requesting funds in excess of \$1.7 million for the \$356,000 in the Fund.

In 2007, the Chesapeake Bay Restoration Advisory Committee recommended grants for 54 applicants, totaling 362,102.00.

\* 54 recipients were approved by the General Assembly, totaling \$362,102.

Total: \$362,102.00

Max: \$29,000            Min: \$265

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**2008**

Received 73 proposals requesting funds close to \$900,000 for the \$380,500 in the Fund.

In 2008, the Chesapeake Bay Restoration Advisory Committee recommended grants for 46 applicants, totaling \$362,562.

\* 46 recipients were approved by the General Assembly, totaling \$362,562.

Total: \$362,561.50

Max: \$28,000            Min: \$400

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**2009**

Received 93 proposals requesting funds in excess of \$1.6 million for the \$393,086 in the Fund.

In 2009, the Chesapeake Bay Restoration Advisory Committee recommended grants for 53 applicants, totaling \$392,574.

\* 53 recipients were approved by the General Assembly, totaling \$392,574.

Total: \$392,574.00

Max: \$18,000            Min: \$1,495

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**2010**

Received 102 proposals requesting funds in excess of \$1.5 million for the \$329,152 in the Fund.

In 2010, the Chesapeake Bay Restoration Advisory Committee recommended grants for 50 applicants, totaling \$329,146.

\* 50 recipients were approved by the General Assembly, totaling \$329,146.

Total: \$329,146.49

Max: \$15,000            Min: \$1,260

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**2011**

Received 106 proposals requesting funds close to \$1.6 million for the \$311,874 in the Fund.

In 2011, the Chesapeake Bay Restoration Advisory Committee recommended grants for 58 applicants, totaling \$311,777.

\* 58 recipients were approved by the General Assembly, totaling \$311,777.

Total: \$311,776.51

Max: \$14,000            Min: \$1,651

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**2012**

Received 104 proposals requesting funds close to \$1.6 million for the \$307,971 in the Fund.

In 2012, the Chesapeake Bay Restoration Advisory Committee recommended grants for 62 applicants, totaling 439,434.

\* 62 recipients were approved by the General Assembly, totaling \$307,662.

Total: \$307,661.76

Max: \$15,000            Min: \$850

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