



2016 ANNUAL REPORT



Leading the nation with clean water solutions...

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Mission & Vision

We live in a world of rapid development and constantly changing landscapes. When our natural lands are replaced by roads, buildings, parking lots and lawns, rain does not soak easily into the ground and is carried swiftly to nearby streams and rivers. As a result, increasing amounts of polluted runoff – rainwater soaked with a toxic stew of pollutants such as pet waste, motor oil, trash, fertilizers and pesticides – are contaminating our local streams, creeks and rivers.

We all suffer the consequences from dirty water. Excess runoff not only contributes to increased erosion and flooding, but the pollutants carried in it also threaten animals and aquatic life, as well as public health – triggering beach closings, swimming restrictions and advisories against harvesting or eating fish. Moreover, pollution puts our drinking water sources at risk.

For far too long, we ignored the effects that our activities on land have on our waterways. Our polluted runoff problem is actually getting worse – in fact, in many places across the country, it is the only source of pollution that is increasing. A growing population with increasing levels of development and urban and suburban sprawl, compounded with an aging infrastructure system that leads to leaky sewer lines and failing septic systems, all degrade our natural resources and contribute to the escalating threats facing our land and water sources.

We all need clean and healthy waterways to sustain us – now is the time to get a handle on our pollution problem and enable our watersheds to thrive.

Enter the Center for Watershed Protection, whose mission is to protect and restore our streams, rivers, lakes, wetlands and bays from the impacts of land use activities. The Center is a national leader in advancing science-based solutions to prevent pollution in our waterways. We envision a world where every community has clean water and healthy natural resources to sustain diverse life.

Welcome



Dear Friends:

In the face of rapidly changing federal policy and political climate change, the need for watershed science, education, and research remains constant. Taking a holistic watershed approach that considers everything from agriculture, energy, economics, wildlife, trees, water, and human impacts has been a central theme in the Center for Watershed Protection's work and our charge has never been more urgent.

In 2016, we continued to make investments and pursue research and education in several key areas: agriculture, monitoring of best management practices (BMPs), erosion and sediment control, green infrastructure, and training. Practitioners remain our primary audience with regulators and nonprofits looking for understandable, practical advice.

Among our offerings includes our first ever National Watershed and Stormwater Conference with both web and face-to-face opportunities for our audiences. We hope to engage all of you in this and other future project opportunities to ensure the high quality products and services remain at the core of the Center's vision and mission. We hope you will continue on this journey to clean water and healthier watersheds!



Warm Regards,

A handwritten signature in black ink, appearing to read "Hye Yeong Kwon".

Hye Yeong Kwon
Executive Director

A handwritten signature in black ink, appearing to read "Carlton Epps, Sr.".

Carlton Epps, Sr.
Board President

ACCOMPLISHMENTS

Membership

The Center for Watershed Protection Association (CWPA) is celebrating its sixth year as the Center for Watershed Protection's membership program. CWPA encompasses several different types of members, which include individuals, students, local governments, non-profits, universities, libraries, and corporations. CWPA offers several benefits, one of which is our Online Watershed Library (OWL). OWL is a searchable, online database of research articles, stormwater and watershed manuals and plans, assessment tools, regulatory information, and other watershed-related resources. OWL was developed to be a time-saver for watershed and stormwater practitioners as it provides users ready access to a well-organized database of relevant and up-to-date information on watershed and stormwater management.

The Center's audience places a high value on continuing education and staying on top of emerging trends in the watershed industry. In a recent survey of CWPA members, the top reason survey respondents gave for joining CWPA was for access to online learning through OWL and webcasts. To maintain OWL as a top resource for our members, in 2016 we overhauled the database to provide a more functional user interface and to add new resources. OWL currently contains 780 resources and will continue to grow each year.

The Center for Watershed Protection Association is made up of 238 professionals from government agencies, non-profits, consulting firms, universities and other organizations from 37 U.S. states and territories and five countries.



ACCOMPLISHMENTS

Training

“The conference was very interesting and informative. I learned a lot. Speakers were great and highly educated in the field. Thank you.”

“I liked seeing examples from across the country - different climates, policies, maturity of programs, etc.”

National Watershed and Stormwater Conference

On April 12th, the Center for Watershed Protection hosted the first National Watershed and Stormwater Conference. This unique conference united online participation via national webcast with in-person discussion at our local hubs in Baltimore, Maryland; Hartford, Connecticut; and Omaha, Nebraska. Major topics included illicit discharge detection and elimination, post-construction stormwater management, pollution prevention, and non-traditional MS4s. The local hubs also included presentations on local stormwater and watershed concerns:

- CT's New MS4 Permit
- Why LID?
- Resources for MS4 Communities
- Watershed Master Planning and Potential Impact on Future 319 Grant Funding
- Nebraska H2O - Post-Construction Stormwater Standards for Phase II MS4s
- Municipal Maintenance Operations and Risk-Based Evaluation Methods
- The Next Generation Chesapeake Bay Watershed Model: How It Could Affect Bay TMDL Implementation
- What You Should Know About TMDL Implementation
- Crediting Stormwater Practices in the Chesapeake Bay Watershed
- Retrospective on TMDL Implementation Plans
- Baltimore City's Perspective on TMDL Implementation
- Anne Arundel County's Perspective on TMDL Implementation
- Talbot County's Perspective on TMDL Implementation
- A Consultant's View on TMDL Implementation

With 166 registrants from federal, state and local government agencies, consulting firms, universities and non-profits, the conference attracted an even greater number of online attendees. Support from more than 15 industry sponsors made our first annual conference a great success.



“Thanks for taking this to online web broadcast. I thought it was wonderful. It provides an opportunity to attend events we couldn’t otherwise. Bravo!”

Webcasts

The Center continued its national Watershed and Stormwater Webcast Series in 2016 with seven new webcasts. We estimate that over 1,200 people attended these webcasts in 2016, for a total of more than 20,000 attendees since the webcast series began in 2009. The topics covered in 2016 included:

- Surviving a MS4 Compliance Audit
- Education Programs to Enhance Pollutant Removal
- Green Infrastructure, Green Jobs: The Latest Trends
- Incentivizing BMP Installation in Communities with Stormwater Utilities
- Retrofitting Revisited: Forward Into the Past
- Non-Traditional MS4s
- Using Illicit Discharge Programs to Monitor Bacteria

ACCOMPLISHMENTS

Research



The comparison of these three state strategies representing the Upper Mississippi will help other states begin the dialog on how the respective approaches can be better aligned and to identify gaps in knowledge as well as focus areas for future research.

Cleaning Up Agricultural BMP Efficiencies to Clean Up the Upper Mississippi

With funding from the Walton Family Foundation (WFF), the Center evaluated state plans for achieving the nutrient reduction goals identified in EPA's Gulf Hypoxia Action Plan. This plan calls for the 12 states within the Mississippi River basin to produce agricultural nutrient loss reduction strategies to reduce nutrients to the Gulf of Mexico by 45%, primarily through implementation of agricultural best management practices (BMPs). The Center reviewed three such plans—for Iowa, Illinois, and Minnesota—and initiated regional discussions on the nutrient reductions assigned to agricultural BMPs in these plans, to ultimately provide funders and regulators with the ability to quantify the benefits from funds spent on nutrient reduction in the Upper Mississippi basin.

The project involved a collaborative workshop with WFF grantees willing to discuss a standard set of numbers to measure the success of their funding efforts in the basin—and development of a white paper summarizing the BMP efficiencies and per-acre costs from each state plan. A final version of this plan can be found here: <http://owl.cwp.org/?mdocs-file=7742&mdocs-url=false>. While each strategy must account for statewide differences in local climate and agricultural practices, achieving general agreement on the pollutant removal associated with each BMP, and knowing when regional differences are the primary driver in BMP performance will help WFF and other multi-state funding programs to prioritize their limited restoration dollars. Members of the Gulf Hypoxia Task Force, State representatives who develop the nutrient reduction strategies and the North Central Region Water Network have also expressed interest in a “common measures” approach to facilitate tracking of cumulative effectiveness towards the Gulf Hypoxia nutrient reduction goal. The results may also help initiate discussions surrounding State nutrient trading programs using consistent trading currencies.

Since the overall goal is to quantify benefits from dollars spent in the Upper Mississippi, one of the next steps is to discuss whether the differences among states need to be reconciled to assist with gross tracking and general decision-making. The comparison of these three state strategies representing the Upper Mississippi will help other states begin the dialog on how the respective approaches can be better aligned and to identify gaps in knowledge as well as focus areas for future research.

BMP Monitoring Projects in Maryland

Government agencies across the country are poised to spend millions of dollars on water quality improvement projects to meet regulatory requirements. The Center conducts research to help quantify the pollutant removal performance of these best management practices (BMPs), focusing on emerging practices with the potential to save communities money by removing more pollutants per dollar spent. In 2016, the Center worked on four such monitoring projects in Maryland:

1. Working with Morgan State University, the Center is implementing a study design to collect and analyze the nutrient content of material collected in highway inlets. The study goal is to provide the Maryland State Highway Administration with recommendations to optimize their inlet cleaning program for TMDL compliance and provide information that can enhance the crediting protocols allowed by the Maryland Department of the Environment.
2. The Center is working with the Chesapeake Stormwater Network, Carroll County, Maryland and Maryland Department of Natural Resources through a grant from the National Fish and Wildlife Foundation to evaluate the use of alternative filter media to boost the nutrient removal performance of sand filters and bioretention. Biochar is the media additive being evaluated at two sites in Carroll County and Howard County. These enhanced BMPs will be compared against control versions to determine added benefits.
3. Through a grant from the Chesapeake Bay Trust, the Center is working with Carroll County Bureau of Environmental Services to evaluate the effectiveness of BMP implementation on changes in downstream channel stability. The monitoring project uses a paired-watershed study design to address three research hypotheses that will evaluate hydrologic, hydraulic and geomorphic conditions of streams in Carroll County and the potential sediment reductions for Chesapeake Bay TMDL credit.
4. The Center is working with Talbot County Department of Public Works on a monitoring study to quantify the nitrate load reductions associated with denitrification bioreactors installed in County-owned ditches. This project provides new information on a practice that has wide applicability across the Eastern Shore, but currently receives relatively low pollutant removal credit due to a lack of information on the stormwater and groundwater benefits of their application as ditch retrofits. This work is funded by the Chesapeake Bay Trust.



ACCOMPLISHMENTS

Watershed & Stormwater Services



Integrating Green Infrastructure into Long Term Control Plans in New Jersey

Communities with combined sewer overflows (CSOs) in New Jersey must, among other requirements, evaluate the feasibility of green infrastructure (GI) as a solution for reducing or eliminating CSOs. Given that GI is a newer practice for managing stormwater, guidance is needed to assist permittees evaluate GI feasibility and incorporate GI into long term control plans (LTCPs). The Center worked with Mott MacDonald, LLC to provide technical assistance to the New Jersey Department of Environmental Protection that resulted in development of a guidance document on integrating GI into LTCPs. The Center led a review of available literature on incorporating GI into CSO control plans and assisted with writing the guidance document.

DC Soil Erosion and Sediment Control Handbook Update

The District of Columbia's (District's) Soil Erosion and Sediment Control (ESC) Handbook includes specifications for over 100 erosion control measures, but has not been updated in over ten years. Since that time, regulations have changed, with a resulting change in the expected performance of ESC practices, and some new practices have been developed as well. In 2016, the Center was hired by the District of Columbia Department of Energy and Environment (DOEE) to do a complete update to the District's ESC Handbook to reflect the current scientific, engineering, and practical understanding in the fields of stormwater management and soil erosion and sediment control. The Center is working with partners A. Morton Thomas and Ecosystem Services, LLC to update the 2003 menu of accepted ESC Standards and Specifications, compile the updates into a new ESC Handbook along with Case Scenarios, Process Guides, and other implementation guidance, and provide public participation and stakeholder training, to facilitate the adoption and implementation of the new standards.

Baltimore Metropolitan Reservoir System Monitoring Plan

The Baltimore Metropolitan water supply provides 1.8 million consumers with high quality water and is comprised of three large impoundments draining a combined 460 square miles. As part of their strategy to protect these source waters, the Baltimore Metropolitan Council contracted with the Center and EA Engineering and Technology Inc. to develop a Monitoring Plan and Quality Assurance Project Plan for the Baltimore Metropolitan Water System. The overall goals of the monitoring program are to generate data of sufficient quality and quantity to:

- Characterize the state, changes, and trends in water quality in the reservoirs and their tributaries through a regular sampling, analysis, and reporting monitoring program to ensure maintenance of high quality raw drinking water supply and support management activities to track progress and compliance towards TMDLs
- Identify emerging water quality issues affecting the quality of the raw or finished water supply
- Improve the application and development of models simulating water quality response in the reservoirs, effectiveness of management practices (e.g. BMPs), or other scenarios
- Create readily available data sets, or future data, needed for special studies on an as needed basis

The monitoring plan developed by the Center describes the core monitoring program of regular sampling, analysis and reporting. It includes in-lake sampling at the reservoirs, and storm event sampling and monthly water quality and flow measurements at sampling locations on the reservoir tributaries to more accurately estimate pollutant loadings contributing to the water supply reservoirs. Monitoring will include a full suite of parameters to analyze trends in water quality, including eutrophication and sediment delivery to the reservoirs as well as additional water quality parameters that are of emerging concern to water quality and treatment (e.g. disinfection byproducts, chloride).

The data collected and analyzed as a result of the updated monitoring plan will result in the overall improvement of the watershed monitoring and management system of the Baltimore Metropolitan Water Supply System and as such, improved and maintained source water quality. It will also enable the City of Baltimore and its partners to improve watershed planning and management based on more reliable and comparable data that will in turn facilitate the development of improved prediction of trends and the ability to further facilitate compliance with water quality standards and TMDL-based Watershed Implementation Plan requirements.



The data collected and analyzed as a result of the updated monitoring plan will result in the overall improvement of the watershed monitoring and management system of the Baltimore Metropolitan Water Supply System...

ACCOMPLISHMENTS

Watershed & Stormwater Services (con't.)

Stormwater Retrofit Implementation in Maryland



Stormwater Retrofit Implementation in Maryland

The Center for Watershed Protection received a grant from Maryland Department of Natural Resources' Chesapeake and Atlantic Coastal Bays Trust Fund for design and implementation of stormwater retrofits at eight different locations in Maryland. The Center completed the designs and managed the construction process for these retrofits, which were completed in 2016. The constructed projects include:

- A dry pond retrofit with bioretention and downspout disconnection at 7th Day Adventist Church in Howard County
- Three bioretentions at Bethel Korean Church in Howard County
- A bioretention at Harvester Baptist Church in Howard County
- Outfall stabilization and bioswales at the Southaven Community in Anne Arundel County
- Bioretentions at Rosenstock Hall and Coffman Chapel at Hood College in Frederick

Two of these BMPs are being monitored through separate studies to evaluate their performance. In total, these practices treat 16.43 acres and remove an estimated 109 lbs/year of total nitrogen, 8 lbs/year of total phosphorus and 7,514 lbs/ year of total suspended solids. These projects will help the county governments with meeting their Watershed Implementation Goals for the Chesapeake Bay TMDL for nutrients and sediment.



Donors

The Center is truly grateful to the **Wallace Genetic Foundation** for supporting the overall work of the Center.

Patron Program: Straughan Environmental, Inc.

Conference Sponsors:

Platinum

Straughan Environmental, Inc.
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Gold

Environmental Quality
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The Hatcher Group
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Associates, Inc.
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Snout BMP
Brudis & Associates, Inc.
RK&K
EnviroCert International, Inc.
Stantec

Other

Source Molecular

Hub Sponsors

Douglas County, Nebraska
Connecticut NEMO

Friends of the Center:

The Center is proud to list our Friends of the Center. We are particularly grateful to our Watershed Heroes, who have demonstrated exceptional commitment of at least \$500, and in many cases, much more! Thank you for helping the Center make a difference!

Watershed Heroes

Matthew Steinhilber
Scott Scarfone
Anwer Ahmed
Jeffrey Shinrock
Willy Moore
Michael Fowler
Alan Vicory

Blue Crab Boosters

Diane Hoffman
Jacquie Schingeck
Carlton Epps

Heron Heralders

James Meek
Gregory Hoffmann
Richard Hall
Rhea Harris
Dave Hirschman
Scott Lang

Salamander Supporters

Lisa Boland
Laura Ganus, Water
Words That Work

We also appreciate the hundreds of donors who made donations to the Center through their workplace giving campaign. In 2016, the Center received \$1,384.51 through the Conservation and Preservation Charities of America and Combined Federal Campaign, and \$539.03 from the MD Charity Campaign and United Way.

The Center hopes that you will help our ambitious efforts for protecting our nation's water quality by joining our Friends of the Center program or contributing through workplace giving.

To make a tax-deductible gift



By mail:

Please send your check to Center for Watershed Protection, 3290 North Ridge Road, Suite 290, Ellicott City, MD 21043. Attn. Friends of the Center.



Online:

Go to our website at <http://www.cwp.org> and go to "Donate" to make a gift by credit card.



Payroll Deduction:

As a member of the Conservation and Preservation Charities of America, the Center takes part in several workplace giving programs. We are listed as #11248 in the Combined Federal Campaign.

For more information on how you can protect our nation's watersheds, please visit our website at www.cwp.org or contact our office at 410.461.8323.

Partnerships

The Center values its partnerships-- the contribution that every sector provides. The Center isn't just hired by a client, it works for the community. These groups worked with us in 2016 to create meaningful opportunities for watershed protection and restoration nationwide.

Watershed Associations

Back Creek Conservancy, MD
James River Association, VA
Ogeechee Riverkeeper
Upper Neuse River Basin Association
West Atlanta Watershed Alliance

Local Governments

Albemarle County, VA
Allendale County, SC
Anne Arundel County, MD
Arlington County, VA
Baltimore County, MD
Berks County, PA
Carroll County, MD
City of Atlanta, GA
City of Baltimore, MD
City of Charlottesville, VA
City of Edinburg, VA
City of Edmonton, AL (CA)
City of Frederick, MD
City of Fredericksburg, VA
City of Hampton, VA
City of Lynchburg, VA
City of Richmond, VA
City of Salisbury, MD
Harford County, MD
Howard County, MD
Lancaster Township, PA
Montgomery County, MD
Prince George's County, MD
Talbot County, MD

Town of Easton, MD
Town of Rising Sun, MD
Village of Claiborne, MD
Wicomico County, MD
Worcester County, MD

State, Federal and Territorial Agencies

Delaware Department of Natural Resources and Environment Control
District of Columbia Department of Energy and Environment
Georgia Environmental Protection Division
Maryland Department of Natural Resources
Maryland Port Authority
Maryland State Highway Administration
New Jersey Department of Environmental Protection
New York Department of Environmental Conservation
Pennsylvania Department of Conservation and Natural Resources
Pennsylvania Department of Environmental Protection
U.S. EPA Chesapeake Bay Program Office
U.S. EPA Region IV
U.S. EPA Office of Water
U.S. Forest Service
Vermont Department of Environmental Conservation

Other Organizations and Companies

A. Morton Thomas and Associates, Inc.
Abell Foundation
Acokeek First Church of God
AECOM
Altria Group, Inc.

Audubon Naturalist Society
Baltimore Metropolitan Council
Belair Edison Neighborhoods, Inc.
Bethel Presbyterian Korean Church
Biohabitats, Inc.
Capital Region Council of Governments
Cardno
Chesapeake Bay Foundation
Chesapeake Bay Trust
Chesapeake Stormwater Network
Civic Works, MD
Coastal Resources, Inc.
Columbia Association
Cornell Douglas Foundation
Corps Network
Delaware Valley Regional Planning Commission
Downstream Strategies
EA Engineering, Science and Technology, Inc.
Eastern Delaware County Stormwater Collaborative
Ecosystem Services LLC
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Iowa State University
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Johnson, Mirmiran & Thompson (JMT)
Keith Campbell Foundation for the Environment
KCI Technologies, Inc.
Lebanon County Clean Water Alliance
Morgan State University
Mott MacDonald, LLC
National Fish & Wildlife Foundation
National Science Foundation
Northrup Grumman Corporation
Penn State University
People for Change Coalition
Piedmont Environmental Council
Pinchot Institute for Conservation
Poultney Mettowee Conservation District (VT)
Prince Charitable Trusts
RK&K
Rutgers University
Shenandoah Valley Soil and Water Conservation District
South River Science Team
Stormwater Maintenance LLC
Union Bethel AME Church
University of Georgia
University of North Carolina at Chapel Hill
Virginia Environmental Endowment
Virginia Polytechnic Institute and State University
Wallace Genetic Foundation
Walton Family Foundation
Water Words That Work, LLC
Waterfront Partnership of Baltimore, Inc.
William Penn Foundation
STANTEC
Susquehanna River Basin Commission
Susquehanna River Heartland Coalition for Environmental Studies

Financial Report

Based on audited figures for FY 2016. Copies of all financial documents are available at the Center's Ellicott City Office.

Statement of Financial Position December 31, 2016

ASSETS

CURRENT ASSETS	
Cash and cash equivalents	\$856,359
Grants and contracts receivable:	
Federal government - unbilled	111,209
Other - billed	224,425
Other current assets	<u>5,657</u>
Total current assets	<u>1,197,650</u>
INVESTMENTS	<u>268,785</u>
FURNITURE AND EQUIPMENT – at cost	
Furniture	6,311
Computer equipment	<u>179,788</u>
	186,099
Less accumulated depreciation	<u>117,561</u>
Net value of furniture and equipment	<u>68,538</u>
SECURITY DEPOSIT	<u>6,022</u>
	<u>\$1,540,995</u>

LIABILITIES AND NET ASSETS

CURRENT LIABILITIES	
Accounts payable	\$51,685
Accrued salaries and taxes payable	67,190
Accrued leave	51,719
Deferred revenue	<u>15,771</u>
Total current liabilities	186,365
LONG-TERM LIABILITIES	
Deferred rent	<u>15,520</u>
Total liabilities	<u>201,885</u>
NET ASSETS	
Unrestricted	932,173
Temporarily restricted	<u>406,937</u>
Total net assets	<u>1,339,110</u>
	<u>\$1,540,995</u>

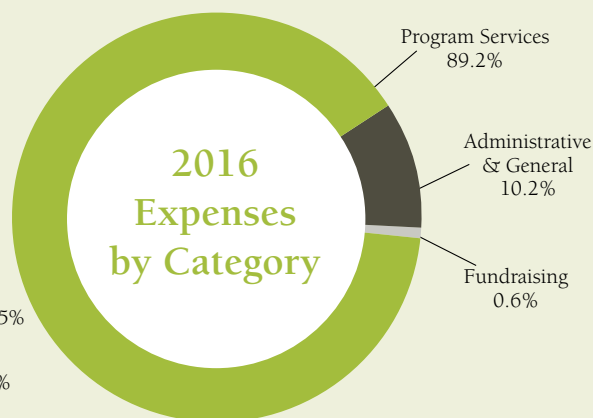
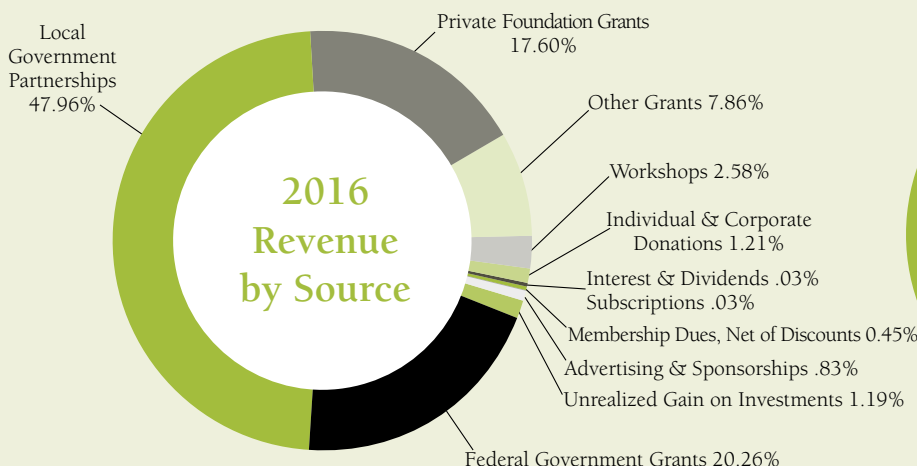
Statement of Activities for the year ended December 31, 2016

REVENUES, GRANTS AND OTHER SUPPORT

Federal government grants	\$558,519
Local government partnerships	1,322,244
Private foundation grants	485,098
Other grants	216,589
Individual and corporate donations	33,332
Workshops	71,105
Membership dues, net of discounts	12,542
Subscriptions	853
Advertising and sponsorships	23,000
Interest and dividends	709
Unrealized gain on investments	<u>32,893</u>
Total revenues, grants and other support	<u>2,756,884</u>

EXPENSES

Program services:	
Membership	80,129
Research	330,262
Training	419,546
Watershed/Stormwater Services	<u>1,479,068</u>
Total program services	<u>2,309,005</u>
Supporting services:	
General and administrative	264,408
Fundraising	<u>15,807</u>
Total supporting services	<u>280,215</u>
Total expenses	<u>2,589,220</u>
Change in net assets	167,664
Net assets at beginning of year	<u>1,171,446</u>
Net assets at end of year	<u>\$1,339,110</u>



Board of Directors

The Center is governed by a Board of Directors that provides strategic direction and oversight for the organization. Our current board members include:

Carlton G. Epps, Sr., President: Over the Past 30 years, Carlton has managed finance and accounting functions and operational elements for the federal, state, and local government, as well as private and not for profit corporations. He is a decorated veteran of combat in Southeast Asia.

Jeff Shinrock, Vice President: Jeff is the Principal for Red Eagle Development. He provides management, technology, market planning strategies, sustainable construction and business solutions for corporate, government, non-profit, and construction clients.

Alan H. Vicory, Jr. P.E., BCEE, Vice President: Alan is the Executive Director and Chief Engineer for Stantec in Columbus, OH. He leads other professionals in water resource efforts related to watershed planning, stormwater control and floodplain management.

Michael Fowler, PE, Treasurer: Mike is a senior manager with Wildlands Engineering, a Charlotte-based firm that focuses on ecological restoration and water resources engineering. Mike has over 20 years of experience in watershed planning, stormwater management, and stream and wetland restoration.

Anwer Ahmed, PE, DWRE, ENV SP, Secretary: Anwer serves as the ARCADIS Water Division's Stormwater and Watersheds Practice Leader for the Technical Knowledge and Innovative Pillar. Anwer has over 25 years of professional experience in water resources engineering, watershed planning, urban stormwater management, MS4 compliance, and green infrastructure.

Eric K. Berntsen, PH, CFM: Eric is a habitat restoration specialist with the Kalispel Natural Resources Department in Usk, Washington. He has over 15 years of international experience in hydrology, geomorphology, stream and floodplain management and restoration, erosion and sediment control, low impact development, and landscape design.

Karen Evans: Karen joined Whiting-Turner as a project engineer in 1985 and became Vice President in 2012. She has been planning and constructing building projects for various clients such as IBM Corporation, T. Rowe Price Associates, Corporate Office Properties Trust, and University of Maryland Medical Systems. Karen also serves as the company's Mid-Atlantic Regional LEED Coordinator which focuses on the latest technologies, tools and processes for sustainable buildings.

Richard E. Hall: Richard is the Secretary of Planning and was appointed to the position by Governor Martin O'Malley in January 2007. An employee of the Maryland Department of Planning since 1992, Secretary Hall has more than 20 years of professional planning experience in private practice as well as at the municipal, county and state levels. Secretary Hall is a Maryland native and harbors a broad knowledge of the state's natural, built and cultural environments as well as its people.

Rhea Harris: Rhea serves as the Assistant Secretary/Chief of Staff for the MD Department of Public Safety and Correctional Services. She has been in this position since May 2012. Prior to this position, Rhea served as the Legislative Director for the Department for 10 years. She is actively involved in the day to day operations of the Department which includes managing the Department's Headquarters office in Towson, and implementing the standards of the Federal Prison Rape Elimination Act of 2012. She manages the Board and Commissions of the Department as well as advises the Secretary and Deputy Secretaries.

Gregory "Scott" Lang: Scott is a Senior Vice President with KCI Technologies. KCI is a 1200 person multi-discipline civil and infrastructure engineering firm and Scott leads the firm's Construction Management Discipline, which provides owner's representative and at-risk construction services on projects in 15 states from Texas to Pennsylvania. Prior to joining KCI, Scott retired from the US Navy in 1998 after a career as a Civil Engineer and Navy diver.

William H. Moore: Willy is President of Southway Builders, Inc., a general contracting company that builds in both the commercial and multi-family residential markets, while having expertise in new construction, adaptive re-use, historic, and sustainable projects within the Mid-Atlantic region.

Scott C. Scarfone, ASLA : Scott is principal at and founder of Oasis Design Group, a landscape architecture and urban design firm in Baltimore, Maryland. He is a registered landscape architect in nine states and a certified professional horticulturist. In practice for 24 years, Scarfone has a broad range of design and project management experience ranging from large-scale planning and urban design to development of site-specific landscape design solutions and complex planting designs.

Staff

Ellicott City, Maryland

Hye Yeong Kwon, Executive Director
Bill Stack, P.E., Deputy Director of Programs
Greg Hoffmann, P.E., Program Director, Practices
Karen Cappiella, Program Director, Research
Lindey Brown, Financial Officer
Laura Gardner, P.E., Water Resources Engineer
Lisa Fraley-McNeal, Research Specialist
Kim Roberts, Web/Print Media Manager
Bryan Seipp, Watershed Manager/Professional Forester
Chris Swann, Environmental Analyst/CIO
Carol Wong, P.E., Water Resources Engineer

Charlottesville, Virginia Office

Ari Daniels, E.I.T., Water Resources Engineer
Laurel Williamson, Stormwater and Watershed Planner

Leesburg, Virginia Office

Neely Law, Ph.D., Program Director, Training

Ithaca, New York Office

Deb Caraco, P.E., Senior Watershed Engineer

Philadelphia, Pennsylvania Office

Julie Schneider, Watershed Planner
Mike Hickman, Water Resources Designer

Bluffton, South Carolina Office

Bill Hodgins, P.E., Senior Water Resources Engineer

Champaign, Illinois Office

Reid Christianson, P.E., Ph.D.,
Senior Water Resources Engineer





Looking Ahead

2017 marks the Center's 25th anniversary, and we plan to celebrate with a special event and awards at our 2nd annual National Watershed and Stormwater Conference. We will kick off our next 25 years by beginning an update of our popular Better Site Design Handbook, and will be ramping up work in Pennsylvania to help municipalities meet their stormwater permit requirements.

Over the next two years, we are aiming to expand our relationships with foundations, consultants, local governments and others to create a bigger impact, together.

Your donation will help us invest in our research programs to discover new and innovative strategies to protect clean water. Your contribution can also help us expand our projects and trainings to more communities, partner with research institutions and national environmental organizations on applied research projects, grow public and member outreach about watershed issues and more.

Join us as we lead the nation in developing clean water solutions to restore our waterways.

Editor: Karen Capiella

Contributing Writers: Chris Swann, Bill Stack and Hye Yeong Kwon

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This report is printed with non-volatile vegetable oil-based inks on 100% post-consumer recycled, process chlorine free paper using 100% wind power.

In 2016, the Center met the Standards for Charitable Accountability set forth by the BBB's Wise Giving Alliance. Also, the Center is a platinum level participant in the GuideStar Exchange for nonprofit transparency.

CENTER FOR
WATERSHED
PROTECTION

*Leading the Nation with
Clean Water Solutions*

3290 North Ridge Road, Suite 290 • Ellicott City, MD 21043

phone: 410.461.8323 • fax: 410.461.8324

www.cwp.org