



DoD CHESAPEAKE BAY PROGRAM JOURNAL

PROTECTING THE CHESAPEAKE BAY FOR MILITARY READINESS, FOR OUR COMMUNITY, FOR FUTURE GENERATIONS

Outreach

By: Sarah Diebel, DoD Regional Environmental Coordination Office EPA Region 3

I didn't realize the extent of outreach Regional Environmental Coordination (REC) offices undertake on a daily, weekly and monthly basis, of course until I started working in one. The DoD Chesapeake Bay Program (CBP) is just one of the many functions of the Region III REC and as our program continues to grow, outreach remains a core value within our program activities. Outreach can take on many forms such as: publishing success stories through local newspapers; providing comment letters on proposed legislation or regulation that may impact DoD interests; partnering with local organizations; increasing awareness to recycle, reduce waste, eliminate pollution and comply with regulations; and looking ahead towards environmental challenges.

In our annual plan, the DoD CBP identified Outreach as a key element. Unfortunately, one of the largest pieces in our outreach plan was hosting the Chesapeake Bay Commanders' Conference. With the current budget constraints, our leadership requested we look at alternatives to a face-to-face meeting, which we are doing. As mentioned in the last Chesapeake Bay Action Team (CBAT) conference call, we revealed the launch of our website on DENIX, new display panels reflecting the Executive Order 13508, and Program Logo.

This past month marked over 30 years of Earth Day related activities. The Department of the Navy's 2013 Earth Day theme was "Global Reach – Local Action." It is apparent that DoD personnel are taking action from global, regional and local perspectives. This quarter's articles have several outreach related messages that reflect in the core values of the DoD CBP as relayed in our Vision and Mission statements:

Last month, I had the opportunity to coordinate with Navy Hampton Roads installations on planning Clean the Bay Day on 1 June 2013. This event is held annually. This year marked the Silver Anniversary and its theme was "Many Hands, Light Work". CBP supported the installation coordinators in the recruitment of volunteers, the identification of sites for clean-up, setting up muster locations, arranging for safety training, and carrying many other tasks. The success of this event clearly demonstrates the support and dedication of our military, civilians and their families to the DoD Chesapeake Bay Program Vision and Mission each and every day. Next issue will have a full report out on numbers for the event.

It is our goal in the Bay Program office to highlight this DoD's "leadership by example" and not just in this newsletter, but in subsequent issues and our newly developed website—*we want to hear about your implementation of Bay program goals and objectives!*

As a Hindu proverb goes, "Like the body that is made up of different limbs and organs, all moral creatures must depend on each other to exist." We can all work together to make the Bay program the best it can be. Achieving great things is accomplished through teamwork and communication. We certainly cannot implement the DoD Bay program alone and appreciate your input!

THE VISION:
Protect the Chesapeake Bay for military readiness, for our community and for future generations.

THE MISSION:
Incorporate restoration, pollution prevention and stewardship initiatives for the Chesapeake Bay into DoD's daily mission of providing the military forces that are needed to deter war and to protect the security of the United States; to partner with federal, state, and local governments and organizations and citizen groups to maximize resources and strengthen Bay restoration and protection efforts; and engage all levels of DoD military, civilians, and their families to be environmental stewards of the watershed where they live.

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The National Guard Bureau 2013 Earth Day/Take Your Child to Work Day

By: Kristen Thomas

The National Guard Bureau (NGB) first celebrated Earth Day in 2002. In 2013, NGB participated in the 44th Earth Day celebration with an exciting event for NGB personnel and their families on 25 April 2013 at Arlington Hall Station. The NGB Earth Day celebration occurred in conjunction with Take Your Child to Work Day, observed nationally to encourage children to explore future opportunities in the workforce. This year's theme was "Healthy Families, Healthy Planet." Four hundred children registered for the event focusing on educating NGB children, staff, and guests on the value of being good stewards to the environment through practicing sustainability in everyday life. More than 35 vendors and exhibitors highlighted the latest examples of green technology and products, healthy eating, and energy conservation. Some of the highlights for this year's event included: Tell Me A Story sessions with Mrs. Lil Ingram, wife of Lieutenant General William E. Ingram, Jr., Director of the Army National Guard; a healthy snack fair with cooking demonstrations and samples of healthy snacks; a lunchtime assembly with the Energy Hog from Alliance to Save Energy and healthy brown-bag lunches from Revolution Foods; a Home Depot Kid's Club Activity; hands on archaeology excavations and exhibits; a historic preservation and environmentally sound horticulture and farming practices exhibit by George Washington's Mount Vernon Estates; yoga and Zumba classes on the green roof; an expansive operational energy exhibit; a Trash to Treasures Fashion Show; and Month of the Military Child's mobile tech lab and pictures with Elmo.



Mrs. Lil Ingram, COL Michael C. Ahn, and Elmo host NGB personnel children for a special photo in front of the Minuteman Statue at Arlington Hall Station.

The Army National Guard (ARNG) Environmental Division hosted the annual event which included more than 100 volunteers from throughout NGB. The event proved to be an exciting and educational opportunity for NGB personnel and their families and allowed all participants to get a glimpse of the wide reach of sustainability and the Army's goal to meet current as well as future mission requirements worldwide, while safeguarding human health, improving quality of life, and enhancing the natural environment.



Alliance to Save Energy's hands-on energy conservation assembly.

The NGB has supported an Earth Day/Take Your Child to Work Day event for more than 10 years and plans to continue to support this important event for NGB children and staff.



Virginia Army National Guard Environmental Personnel teach children about the importance of bees.



Operational Energy displays an energy efficient tent with solar battery charging blanket.



Volunteers from Home Depot assist children with a special building project.

WE NEED YOUR PHOTOS!

We are in the midst of preparing the FY2012 Update of the DoD Chesapeake Bay Strategic Action Plan and will be pulling together the DoD Defending our Treasure Update for 2009 - 2012. We need photos that can be included in either or both documents. We are looking for photos of projects, nature scenes, wildlife, military personnel, military equipment and/or anything you would like to share about your installation. Please remember to provide a caption for each photo telling us what the picture is, where it was taken (include installation name), who took it and the date the photo was taken. Please send your photos by the COB 31 July either by email to melanie.frisch@navy.mil or by CD to:

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1510 Gilbert Street
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Stormwater and Your Federal Facility, A Chesapeake Bay Stormwater Training Partnership Workshop

Presented by the Chesapeake Stormwater Network

February 27, 2013 Patuxent National Wildlife Visitor Center

On February 27, 2013, the Chesapeake Stormwater Network (CSN) provided Federal Property Managers, MS4 Permit Managers, Environmental Compliance Officer and Support Consultants with information and design guidelines related to innovations in urban stormwater management. A brief summary is provided below; however, the presentation from this workshop can be found at: <http://chesapeakestormwater.net/2013/01/stormwater-and-your-federal-facility/>

The CSN opened the training by providing an overview of the Federal role in stormwater and the Chesapeake Bay TMDL. In 2009, Executive Order 13508 charged federal agencies with developing a strategy to initiate bold new actions and make dramatic policy changes in order to improve the environment in communities throughout the entire watershed and in its thousands of streams, creeks and rivers. Section 10.4 of the Chesapeake Bay EPA's TMDL sets expectations for the Federal facilities. Many of the Chesapeake Bay jurisdictions provided targets for federal agencies in their Phase II Watershed Implementation plans in order to meet water quality standards.

To ensure both the Jurisdictions and Federal Agencies are implementing measures to meet the 2025 goal, two year milestones will be established and measured. EPA indicated federal actions will take place if insufficient progress is not made. EPA most recently provided an interim assessment of Federal two-year milestones and will continue until 2025.

EPA also provided recommendations for Federal facilities for planning and implementation: get familiar with jurisdictions' Phase II WIP and milestone commitments; perform stormwater assessments; budget for stormwater controls, including permit requirements; maintain stormwater BMPs; report planned and completed BMPs to jurisdictions in a timeframe and format that the EPA can incorporate into progress runs; set numeric and programmatic milestone commitments in a timeframe that allows for collaboration with jurisdictions.

Next, the CSN presented on how to find pollution prevention, retrofit and restoration opportunities on your federal property using their stormwater benchmarking tool. Since most Federal facilities have completed BMP assessments, this tool may be helpful with the retrofit and restoration opportunities because it has a ranking system. This information can be found at: <http://chesapeakestormwater.net/2010/03/technical-bulletin-no-7-stormwater-pollution-benchmarking-tool/>

The CSN also presented on the evolution of stormwater management and how there has been a paradigm-shift. At first, science suggested the need to direct water off-site. However, more recent science indicates sites should retain water indefinitely, remove the pollutants from surface runoff, and eliminate flooding issues. In order to achieve this strategy, stormwater professionals are using a Runoff Reduction Method (RRM), which allows the reduction of runoff volume, reduction of pollutant loads, mimics pre-development hydrology, and promotes groundwater recharge. Examples include soil infiltration, rainfall harvesting, engineering infiltration, and extended filtration.

The RRM becomes increasingly important when computing nutrient and sediment reductions at new stormwater sites versus urban stormwater retrofits. This is because they are credited and accounted differently. The CSN offers a FREE webcast (currently posted) on Estimating Nutrient Reduction at New and Redevelopment Sites: <http://chesapeakestormwater.net/2012/10/estimating-nutrient-reduction-at-new-and-redevelopment-sites-webcast/>

Additionally, in the past five years, each State has revised their regulations to improve the performance of stormwater practices. All of the states increased the volume of treated runoff needed onsite and requires the use of runoff and/or LID practices. Because each state has their own unique regulations, performance standards, compliance models and design criteria, the BMP removal rates are calculated different. These performance standards can be found at: <http://chesapeakestormwater.net/wp-content/uploads/downloads/2012/10/Final-CBP-Approved-Expert-Panel-Report-on-Stormwater-Performance-Standards-LONG.pdf> or on the CSN website.

More information on the new BMP removal rates specifically for urban BMPs can be found in the DoD Chesapeake Bay Action Team (CBAT) conference call meeting minutes.



Highlights of the Chesapeake Bay Action Team Meeting - 18 April 2013

By: *Michael Baker Jr., Inc.*

DoD Chesapeake Bay Program Update

New DoD Chesapeake Bay Program Outreach Materials have been created, including a new DoD Chesapeake Bay Program logo, display panels with EO 13508 goals, and a DoD Chesapeake Bay Program website (**only available to DoD employees at this time**).

Since the C2K goals and commitments expired in 2010, the Enhancing, Partnering, Leadership and Management Goal Implementation Team (GIT) has agreed a new Chesapeake Bay agreement is necessary. Currently, the framework of the document, determining who should be the signatories, and how DoD would participate within the new agreement and governance structure are being established. The Principal Staff Committee (PSC) meeting was held 17 April 2013 and one of the topics regarding the new agreement was looking to have it finalized by the next Executive Council meeting which will be held in the early Fall.

The FY12 Progress Report was released on 28 March 2013. DoD specifically provided narratives for the Restore Clean Water Goal and Conserve Land and Increase Public Access Goal. In addition, an appendix providing more detail on projects for tracking purposes was added to the Progress Report. DoD utilized the data obtained through the Federal Funding Inventory in order to generate the information reported for FY12 progress.

Chesapeake State Updates

Virginia - DoD is still working with DCR on the Virginia Stormwater MOU. All of the services met in April and agreed on comments/revisions based on Virginia's proposed changes.

Maryland - The last Maryland partnership meeting was held on 24 April 2013 via conference call.

D.C. - The second public comment period is underway for D.C.'s stormwater management regulations and management guide. The D.C. Stormwater MOU is about to be signed, possibly during Arbor Day or Earth Day celebrations.

BMP Expert Panel Recommendations

Normand Goulet of the Urban Stormwater Workgroup, Northern Virginia Regional Commission, presented information on removal rates for urban stormwater retrofits and new state stormwater standards. For information from the presentation and for the Final CBP Approved Expert Panel Report on Stormwater Performance Standards, visit the Chesapeake Stormwater Network website (www.chesapeakestormwater.net).

DoD Chesapeake Bay Reporting Requirements

The DoD Chesapeake Bay Program Staff have put together a spreadsheet for DoD Chesapeake Bay Reporting documents along with their corresponding reporting intervals, data collection methods, reporting requirement drivers, and anticipated suspense dates. It was also suggested that the D.C. Stormwater MOU and anticipated release and due dates be added to the spreadsheet.

EPA Chesapeake Bay Program Watershed Model Land Use Updates

DoD provided property boundary data to EPA in 2010 in support of the EO 13508 Strategy. DoD will be going through a second round of land use data for validation to provide to EPA through the Land Use Workgroup (LUWG). The LUWG released a state and local jurisdiction data call in February 2013 to improve the next Phase 6 model under the EPA Chesapeake Bay Watershed Model. DoD will be working with the LUWG only to provide the data for boundaries and land cover and sees this participation benefiting DoD's commitment to the TMDL and also the Defense Installation Spatial Data Infrastructure (DISDI) Group at OSD. The DISDI Group is working on data standards and consistency of data which will overall identify gaps and discrepancies and differentiate between land use and land cover data for DoD installations. The DoD Chesapeake Bay Program staff is coordinating with the EPA Chesapeake Bay Program Office modeling staff to understand what the intended use of the federal dataset will be and the refinement of the federal land boundaries.

NEXT CONFERENCE CALL MEETING FOR the CBAT: August 2013

24th Annual Environment Virginia Symposium ReCap and Award Winners!

By: *Kelly Duckworth, Michael Baker Jr., Inc.*

This year was the 24th annual Environment Virginia Symposium at the Virginia Military Institute in Lexington, Virginia held on April 9-11, 2013. The theme of the symposium, *Charting Our Future: New Tools for Complex Challenges* was attended by more than 700 environmental professionals.

The **Stormwater** session was also very well attended. With the transfer of the Virginia Stormwater Program from the Virginia Department of Conservation and Recreation (VADCR) to the Virginia Department of Environmental Quality (VADEQ) becoming effective on July 1, 2013, this session examined the MS4 Permit re issuance and the latest on the construction general permit. More information on this topic can be found at <http://www.deq.state.va.us/Programs/Water.aspx>.



Each year the Environment Virginia Symposium features the presentation of the Governor’s Environmental Excellence Awards. Consideration for the Governor’s Environmental Excellence Awards included “sustained compliance” which means:

- A facility has no judgment or conviction entered against it or against any key personnel of the facility or any person with an ownership interest in the facility for a criminal violation of environmental protection laws of the United States, the Commonwealth, or any other state in the previous five years;
- A facility has been neither the cause of, nor liable for, more than two significant environmental violations in the previous three years;
- A facility has no unresolved notices of violation or potential violations of environmental requirements of the Department or one of the Boards;
- A facility is in compliance with the terms of any order or decree, executive compliance agreement, or related enforcement measure issued by the Department, one of the Boards, or the U.S. Environmental Protection Agency; and,
- A facility has not demonstrated in any other way an unwillingness or inability to comply with environmental protection requirements. (Section 10.1-1187.1 Code of Virginia).

DoD 2013 Gold level award winners included Joint Base Langley – Eustis for the Fort Eustis Sustainability Program and Joint Expeditionary Base Little Creek – Fort Story for its efforts to improve recycling, construct green buildings, protect natural resources, and reduce toxic chemical, energy and resource use. DoD also had Bronze level award winners which included Joint Base Myer-Henderson Hall for their Sustainability Program and NASA Langley Research Center for their trash-powered research optimizing biomass energy.

Joint Base Langley – Eustis: Sustainability Program

Base leadership embraced sustainability through a strategic planning process that included installation goals of zero waste, resource efficient buildings, and continuous improvements to training lands, residential and office areas, and installation green space. Fort Eustis uses an ISO-14001-based environmental management system (EMS) to drive the sustainability program and track progress through measureable objectives and targets. In partnership with the Army Corps of Engineers, Fort Eustis closely monitored recent facility expansion and renovations to construct twenty U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) buildings.

Joint Expeditionary Base Little Creek – Fort Story: Sustainment Study and Energy & Natural Resource Conservation

Joint Expeditionary Base Little Creek – Fort Story’s sustainability program consists of an active ISO 14001-compliant EMS, execution of a sustainability study to identify base-wide goals, use of a Cross-Functional Team to meet goals, and conservation of natural resources. EMS training is required for all personnel working on base, and a wallet-sized “green card” with the environmental policy statement, significant aspects, and objectives is carried by employees. Priorities include improving recycling, green building and purchasing, protecting natural resources, and reducing toxic chemical, energy and resource use. Successes include reducing hazardous waste generation by 53%, reducing energy use by 52%, achieving a solid waste diversion rate of 43%, converting a coal steam plant to natural gas, reducing annual emissions by more than 500 tons, constructing three 3.7 KW wind turbines (the first Navy wind turbines in the Hampton Roads area), and, constructing ten LEED facilities.

Joint Base Myer – Henderson Hall: Sustainability Program

Joint Base Myer – Henderson Hall is a small, yet high profile military installation comprised of three military bases physically located in Arlington and the District of Columbia. The comprehensive 25-year sustainability program includes both the natural and human environment found on the installation and employs a systems-based approach to sustainability, recognizing the interrelatedness of Mission, Community and Environment. An Environmental and Sustainability Management Plan has also been implemented as a method of tracking objectives undertaken to meet the base goals.

NASA Langley Research Center: Trash-Powered Research: Optimizing Biomass Energy

Since 1917, Langley Research Center (LaRC) has been vital to NASA’s innovative role in aerospace technology, space exploration, and the understanding of the Earth’s changing climate. The Center has an extensive steam infrastructure that has been used for over 60 years. Steam Plant’s dual-fuel boilers, which use natural gas, in addition to using steam from a waste-to-energy (WTE) biomass (municipal solid waste) plant on NASA-owned land adjacent to the Center operated by the City of Hampton. In 2011, LaRC implemented a focused initiative to increase use of steam from the WTE plant, thereby reducing the use of steam from the Center’s fossil fuel-powered plant. As a result of the effort, LaRC realized a 47% reduction in natural gas and 2 million gallons of water.

Congratulations to these four DoD facilities who won this prestige award and continue to lead by example!



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Check it Out:

[08/18/2013](#)

2013 International Low Impact Development Symposium <<https://www.fedcenter.gov/Events/index.cfm?id=23504>> (08/18/2013 - 08/21/2013 from 08:00 AM - 05:00 PM)

The 2013 International Low Impact Development (LID) Symposium is being hosted in the Midwestern United States through a collaborative effort between many states, universities, and organizations. From the Great Lakes to the Mississippi Watershed, every state in the Midwestern United States is addressing urban water quality issues from combined sewer overflows to stormwater runoff. The 2013 International LID Symposium will bring together over 1,000 professionals to share their research, implementation, policy, financing, and education strategies to build and restore cities while protecting our environment.

[10/21/2013](#)

29th Annual International Conference on Soils, Sediments, Water, and Energy <<https://www.fedcenter.gov/Events/index.cfm?id=23502>> (10/21/2013 - 10/24/2013 from 08:00 AM - 05:00 PM)

Examples of conference topics include: bioremediation, ecological risk assessment, innovative technologies, jet fuel contamination, regulatory programs and policies, remediation, renewable energy projects on closed landfills and contaminated sites, carbon footprint and life-cycle analysis, and recycling of demolition debris. This conference is sponsored by the Association for Environmental Health and Sciences Foundation.

Need Training?

Go to <http://www.fedcenter.gov/training/>

Did you miss the Chesapeake Stormwater Network's FREE webcast on Urban BMPs?

Check out <http://chesapeakestormwater.net/2013/03/urban-bmps-and-the-bay-tmdl-webcast/> for the latest FINAL Stormwater Performance Standards and the States Compliance Calculators spreadsheets.

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This newsletter is distributed via e-mail. Contact the DoD Chesapeake Bay Program with any questions, comments, or to be added to the email distribution list (e-mail: dodrecreg3@navy.mil or telephone: 757-341-0383).

